



# 中华人民共和国国家标准

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## 食品安全国家标准 酒中乙醇浓度的测定

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## 前 言

本标准代替 GB/T 5009.48—2003《蒸馏酒与配制酒卫生标准的分析方法》、GB/T 394.2—2008《酒精通用分析方法》、GB/T 4928—2008《啤酒分析方法》、GB/T 15038—2006《葡萄酒、果酒通用分析方法》、GB/T 10345—2007《白酒分析方法》、GB/T 13662—2008《黄酒》、GB/T 11856—2008《白兰地》、GB/T 11857—2008《威士忌》、GB/T 11858—2008《伏特加(俄得克)》共 9 项国家标准中有关酒精度的测定方法。

本标准与 GB/T 5009.48—2003 相比,主要变化如下:

- 标准名称修改为“食品安全国家标准 酒中乙醇浓度的测定”;
- 修改了标准的范围;
- 增加了密度瓶法、气相色谱法和数字密度计法。

# 食品安全国家标准

## 酒中乙醇浓度的测定

### 1 范围

本标准规定了酒精、蒸馏酒、发酵酒和配制酒中酒精度的测定方法。

本标准适用于酒精、蒸馏酒、发酵酒和配制酒中酒精度的测定。其中：第一法密度瓶法适用于蒸馏酒、发酵酒和配制酒，第二法酒精计法适用于酒精和蒸馏酒、发酵酒和配制酒（除啤酒外），第三法气相色谱法适用于葡萄酒、果酒和啤酒，第四法数字密度计法适用于啤酒、白兰地、威士忌和伏特加。

### 第一法 密度瓶法

### 2 原理

以蒸馏法去除样品中的不挥发性物质，用密度瓶法测出试样（酒精水溶液）20℃时的密度，查附录A，求得在20℃时乙醇含量的体积分数，即为酒精度。

### 3 仪器和设备

- 3.1 分析天平：感量0.0001g。
- 3.2 全玻璃蒸馏器：500mL。
- 3.3 恒温水浴：控温精度±0.1℃。
- 3.4 附温度计密度瓶：25mL或50mL。

### 4 分析步骤

#### 4.1 试样制备

##### 4.1.1 蒸馏酒、发酵酒和配制酒样品制备（不包括啤酒和起泡葡萄酒）

用一洁净、干燥的100mL容量瓶，准确量取样品（液温20℃）100mL于500mL蒸馏瓶中，用50mL水分三次冲洗容量瓶，洗液并入500mL蒸馏瓶中，加几颗沸石（或玻璃珠），连接蛇形冷凝管，以取样用的原容量瓶作接收器（外加冰浴），开启冷却水（冷却水温度宜低于15℃），缓慢加热蒸馏，收集馏出液。当接近刻度时，取下容量瓶，盖塞，于20℃水浴中保温30min，再加水至刻度，混匀，备用。

##### 4.1.2 啤酒和起泡葡萄酒样品制备

###### 4.1.2.1 样品去除二氧化碳

在保证样品有代表性，不损失或少损失酒精的前提下，用振摇、超声波或搅拌等方式除去酒样中的二氧化碳气体。样品去除二氧化碳有两种方法：

- a) 第一法：将恒温至15℃~20℃的酒样约300mL倒入1000mL锥形瓶中，加橡皮塞，在恒温

室内,轻轻摇动,开塞放气(开始有“砰砰”声),盖塞。反复操作,直至无气体逸出为止。用单层中速干滤纸(漏斗上面盖表面玻璃)过滤。

- b) 第二法:采用超声波或磁力搅拌法除气,将恒温至 15 °C~20 °C 的酒样约 300 mL 移入带排气塞的瓶中,置于超声波水槽中(或搅拌器上),超声(或搅拌)一定时间后,用单层中速干滤纸过滤(漏斗上面盖表面玻璃)。

注:要通过与第一法比对,使其酒精度测定结果相似,以确定超声(或搅拌)时间和温度。

试样去除二氧化碳后,收集于具塞锥形瓶中,温度保持在 15 °C~20 °C,密封保存,限制在 2 h 内使用。

#### 4.1.2.2 样品蒸馏

同 4.1.1。

### 4.2 试样溶液的测定

4.2.1 将密度瓶洗净并干燥,带温度计和侧孔罩称量。重复干燥和称重,直至恒重( $m$ )。

4.2.2 取下带温度计的瓶塞,将煮沸冷却至 15 °C 的水注满已恒重的密度瓶中,插上带温度计的瓶塞(瓶中不得有气泡),立即浸入 20.0 °C ± 0.1 °C 的恒温水浴中,待内容物温度达 20 °C 并保持 20 min 不变后,用滤纸快速吸去溢出侧管的液体,使侧管的液面和侧管管口齐平,立即盖好侧孔罩,取出密度瓶,用滤纸擦干瓶外壁上的水液,立即称量( $m_1$ )。

将水倒出,先用无水乙醇,再用乙醚冲洗密度瓶,吹干(或于烘箱中烘干),用试样馏出液反复冲洗密度瓶 3 次~5 次,然后装满。按照 4.2.2 操作,称量( $m_2$ )。

## 5 分析结果的表述

样品在 20 °C 的密度( $\rho_{20}^{20}$ )按式(1)计算,空气浮力校正值( $A$ )按式(2)计算:

$$\rho_{20}^{20} = \rho_0 \times \frac{m_2 - m + A}{m_1 - m + A} \quad \dots\dots\dots(1)$$

$$A = \rho_a \times \frac{m_1 - m}{997.0} \quad \dots\dots\dots(2)$$

式中:

$\rho_{20}^{20}$  ——样品在 20 °C 时的密度,单位为克每升(g/L);

$\rho_0$  ——20 °C 时蒸馏水的密度(998.20 g/L);

$m_2$  ——20 °C 时密度瓶和试样的质量,单位为克(g);

$m$  ——密度瓶的质量,单位为克(g);

$A$  ——空气浮力校正值;

$m_1$  ——20 °C 时密度瓶与水的质量,单位为克(g);

$\rho_a$  ——干燥空气在 20 °C、1 013.25 hPa 时的密度( $\approx 1.2$  g/L);

997.0 ——在 20 °C 时蒸馏水与干燥空气密度值之差,单位为克每升(g/L)。

根据试样的密度  $\rho_{20}^{20}$ ,查附录 A,求得酒精度,以体积分数“% vol”表示。

以重复性条件下获得的两次独立测定结果的算术平均值表示,结果保留至小数点后一位。

## 6 精密度

啤酒样品在重复性条件下获得的两次独立测定结果的绝对差值不得超过 0.1% vol;其他样品在重

复性条件下获得的两次独立测定结果的绝对差值不得超过 0.5% vol。

## 第二法 酒精计法

### 7 原理

以蒸馏法去除样品中不挥发性物质,用酒精计测得酒精体积分数示值,按附录 B 进行温度校正,求得在 20 °C 时乙醇含量的体积分数,即为酒精度。

### 8 仪器和设备

8.1 精密酒精计:分度值为 0.1% vol。

8.2 全玻璃蒸馏器:500 mL,1 000 mL。

### 9 分析步骤

#### 9.1 试样制备

##### 9.1.1 蒸馏酒

同 4.1.1。

##### 9.1.2 酒精

用一洁净、干燥的 100 mL 容量瓶,准确量取样品 100 mL,备用。

##### 9.1.3 发酵酒(不包括啤酒)及配制酒

用一洁净、干燥的 200 mL 容量瓶,准确量取 200 mL(具体取样量应按酒精计的要求增减)样品(液温 20 °C)于 500 mL 或 1 000 mL 蒸馏瓶中,以下操作同 4.1.1。

#### 9.2 试样溶液的测定

##### 9.2.1 酒精和蒸馏酒

将试样液(9.1.1)或酒精(9.1.2)注入洁净、干燥的 100 mL 量筒中,静置数分钟,待酒中气泡消失后,放入洁净、擦干的酒精计,再轻轻按一下,不应接触量筒壁,同时插入温度计,平衡约 5 min,水平观测,读取与弯月面相切处的刻度示值,同时记录温度。

##### 9.2.2 发酵酒(不包括啤酒)及配制酒

将试样液(9.1.3)注入洁净、干燥的 200 mL 量筒中,静置数分钟,待酒中气泡消失后,放入洁净、擦干的酒精计,再轻轻按一下,不应接触量筒壁,同时插入温度计,平衡约 5 min,水平观测,读取与弯月面相切处的刻度示值,同时记录温度。

### 10 分析结果的表述

根据测得的酒精计示值和温度,查附录 B,换算成 20 °C 时样品的酒精度,以体积分数“% vol”表示。

以重复性条件下获得的两次独立测定结果的算术平均值表示,结果保留至小数点后一位。

## 11 精密度

在重复性条件下获得的两次独立测定结果的绝对差值不得超过 0.5% vol。

## 第三法 气相色谱法

## 12 原理

试样进入气相色谱仪中的色谱柱时,由于在气固两相中吸附系数不同,而使乙醇与其他组分得以分离,利用氢火焰离子化检测器进行检测,与标样对照,根据保留时间定性,利用内标法定量。

## 13 试剂和材料

除非另有说明,本方法所用试剂均为分析纯,水为 GB/T 6682 规定的一级水。

### 13.1 标准品

13.1.1 乙醇( $C_2H_6O$ ):纯度 $\geq 99.0\%$ 。

13.1.2 正丁醇[ $CH_3(CH_2)_3OH$ ]:纯度 $\geq 99.0\%$ 。

13.1.3 4-甲基-2-戊醇( $C_6H_{14}O$ ):纯度 $\geq 99.0\%$ 。

### 13.2 标准溶液配制

乙醇标准系列工作液:取 5 个 100 mL 容量瓶,分别吸入 2.00 mL、3.00 mL、4.00 mL、5.00 mL、7.00 mL 乙醇,用水定容至刻度,混匀,该溶液用于标准曲线的绘制。

## 14 仪器和设备

14.1 气相色谱仪:配有氢火焰离子化检测器(FID)。

14.2 气相色谱柱:固定相 Chromosorb103,177  $\mu m$ (80 目) $\sim$ 250  $\mu m$ (60 目)(2 m $\times$ 2 mm 或 3 m $\times$ 3 mm)或使用同等分析效果的其他色谱柱。

## 15 分析步骤

### 15.1 试样制备

#### 15.1.1 啤酒

取 10.0 mL 除去二氧化碳的啤酒样品(4.1.2.1)于 10 mL 容量瓶中,加入 0.50 mL 内标正丁醇,混匀。

#### 15.1.2 葡萄酒

取葡萄酒蒸馏液(4.1.1),准确稀释 4 倍(或根据酒精度适当稀释),然后吸取 10.0 mL 稀释后的样品于 10 mL 容量瓶中,加入 0.20 mL 内标 4-甲基-2-戊醇,混匀。

## 15.2 仪器参考条件

- 15.2.1 柱温:200 ℃。  
 15.2.2 气化室和检测器温:240 ℃。  
 15.2.3 载气(高纯氮)流量:40 mL/min。  
 15.2.4 氢气流量:40 mL/min。  
 15.2.5 空气流量:500 mL/min。  
 15.2.6 进样量:1.0 μL。

注:应根据不同仪器,通过实验选择最佳色谱条件,以使乙醇和内标组分获得完全分离。

## 15.3 标准曲线的制作

分别吸取不同浓度的乙醇标准系列工作液(13.2)各 10.0 mL 于 5 个 10 mL 容量瓶中,分别加入 0.50 mL 正丁醇(啤酒分析)或 0.20 mL 4-甲基-2-戊醇(葡萄酒分析)混匀。按照 15.2 的色谱条件测定,以乙醇浓度为横坐标,以乙醇和内标峰面积的比值(或峰高比值)为纵坐标,绘制工作曲线。

注:所用乙醇标准溶液应当天配制与使用,每个浓度至少要做两次,取平均值作图或计算。

## 15.4 试样溶液的测定

按照 15.2 的仪器参考条件,将试样溶液注入气相色谱仪中,得到样品中乙醇和内标峰面积的比值,由标准工作曲线计算测试液中乙醇的浓度。

## 16 分析结果的表述

试样中乙醇含量按式(3)计算:

$$X = C \times f \quad \dots\dots\dots(3)$$

式中:

$X$  —— 试样中乙醇的含量,以体积分数(% vol)表示;

$C$  —— 试样测定液中乙醇的含量,以体积分数(% vol)表示;

$f$  —— 试液稀释倍数。

以重复性条件下获得的两次独立测定结果的算术平均值表示,结果保留至小数点后一位。

## 17 精密度

啤酒样品在重复性条件下获得的两次独立测定结果的绝对差值不得超过 0.1% vol;其他样品在重复性条件下获得的两次独立测定结果的绝对差值不得超过 0.5% vol。

## 第四法 数字密度计法

### 18 原理

将试样注入 U 形管,通过在 20 ℃ 时与两个标准的振动频率比较而求得其密度,计算出样品在 20 ℃ 时乙醇含量的体积分数,即酒精度。

## 19 仪器和设备

- 19.1 数字密度计。  
 19.2 恒温水浴:控温精度 $\pm 0.02$  °C。  
 19.3 注射器:10 mL。

## 20 分析步骤

### 20.1 试样制备

#### 20.1.1 白兰地、威士忌和伏特加样品制备

同 4.1.1。

#### 20.1.2 啤酒样品制备

同 4.1.2。

### 20.2 仪器的校正(可根据各仪器说明书进行校正)

在 $(20.00 \pm 0.02)$  °C下观察和记录 U 形管(洁净、干燥)中空气的“T”值。将注射器与 U 形管上端出口处的塑料管连上,把 U 形管下方入口处的塑料管浸入新煮沸、冷却、膜过滤后重蒸水中,将 U 形管中注满水(要求无气泡),当水温达到恒定温度 $(20.00 \pm 0.02)$  °C时,显示“T”值在 2 min~3 min 内不变化时,读数、记录。

装置的  $\alpha$  和  $\beta$  常数按式(4)和式(5)计算:

$$\alpha = T_{\text{水}}^2 - T_{\text{空气}}^2 \quad \dots\dots\dots(4)$$

$$\beta = T_{\text{空气}}^2 \quad \dots\dots\dots(5)$$

式中:

$\alpha$  ——仪器校正过程的常数;

T ——振荡周期;

$\beta$  ——仪器校正过程的常数。

将常数  $\alpha$  和  $\beta$  输入仪器的记忆单元,重新将开关置于  $\rho$ (密度)档,检查水的密度读数。倒出 U 形管中的水,干燥后,检查空气密度。其值应分别为 1.000 0(水的密度)和 0.000 0(空气的密度)。若显示的数值在小数点后第 5 位差值大于 1,则需要重新检查恒温水浴的温度和水、空气的“T”值。

### 20.3 试样溶液的测定

将试样蒸馏液(20.1)注满 U 形管(要求无气泡),直到试样液温度与水浴温度达到平衡(2 min~3 min)时,记录试样的密度。

## 21 分析结果的表述

根据仪器测定的密度,查附录 A,求得样品在 20 °C 时酒精度,以体积分数 % vol 表示。  
 以重复性条件下获得的两次独立测定结果的算术平均值表示,结果保留至小数点后一位。

## 22 精密度

啤酒样品在重复性条件下获得的两次独立测定结果的绝对差值不得超过 0.1% vol;其他样品在重复性条件下获得的两次独立测定结果的绝对差值不得超过 0.5% vol。



## 附录 A

## 酒精水溶液密度与酒精度(乙醇含量)对照表(20 ℃)

酒精水溶液密度与酒精度(乙醇含量)对照表见表 A.1。

表 A.1 酒精水溶液密度与酒精度(乙醇含量)对照表(20 ℃)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
998.20	0.00	997.43	0.51	996.68	1.01
998.18	0.01	997.42	0.52	996.66	1.02
998.16	0.03	997.40	0.53	996.64	1.04
998.14	0.04	997.38	0.54	996.62	1.05
998.12	0.05	997.36	0.56	996.61	1.06
998.10	0.06	997.34	0.57	996.59	1.07
998.08	0.08	997.32	0.58	996.57	1.09
998.07	0.09	997.30	0.59	996.55	1.10
998.05	0.10	997.28	0.61	996.53	1.11
998.03	0.11	997.26	0.62	996.51	1.12
998.01	0.13	997.24	0.63	996.49	1.14
997.99	0.14	997.23	0.64	996.48	1.15
997.97	0.15	997.21	0.66	996.46	1.16
997.95	0.16	997.19	0.67	996.44	1.17
997.93	0.18	997.17	0.68	996.42	1.19
997.91	0.19	997.15	0.69	996.40	1.20
997.89	0.20	997.13	0.71	996.38	1.21
997.87	0.21	997.11	0.72	996.36	1.22
997.85	0.23	997.09	0.73	996.34	1.24
997.83	0.24	997.07	0.75	996.33	1.25
997.82	0.25	997.06	0.76	996.31	1.26
997.80	0.27	997.04	0.77	996.29	1.27
997.78	0.28	997.02	0.78	996.27	1.29
997.76	0.29	997.00	0.80	996.25	1.30
997.74	0.30	996.98	0.81	996.23	1.31
997.72	0.32	996.96	0.82	996.21	1.33
997.70	0.33	996.94	0.83	996.20	1.34
997.68	0.34	996.92	0.85	996.18	1.35
997.66	0.35	996.91	0.86	996.16	1.36
997.64	0.37	996.89	0.87	996.14	1.38
997.62	0.38	996.87	0.88	996.12	1.39
997.61	0.39	996.85	0.90	996.10	1.40
997.59	0.40	996.83	0.91	996.09	1.41
997.57	0.42	996.81	0.92	996.07	1.43
997.55	0.43	996.79	0.93	996.05	1.44
997.53	0.44	996.77	0.95	996.03	1.45
997.51	0.46	996.76	0.96	996.01	1.46
997.49	0.47	996.74	0.97	995.99	1.48
997.47	0.48	996.72	0.99	995.97	1.49
997.45	0.49	996.70	1.00	995.96	1.50

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
995.94	1.51	995.10	2.09	994.27	2.67
995.92	1.53	995.08	2.11	994.25	2.68
995.90	1.54	995.06	2.12	994.23	2.70
995.88	1.55	995.04	2.13	994.22	2.71
995.86	1.56	995.02	2.14	994.20	2.72
995.85	1.58	995.01	2.16	994.18	2.73
995.83	1.59	994.99	2.17	994.16	2.75
995.81	1.60	994.97	2.18	994.15	2.76
995.79	1.62	994.95	2.19	994.13	2.77
995.77	1.63	994.93	2.21	994.11	2.78
995.75	1.64	994.92	2.22	994.09	2.80
995.74	1.65	994.90	2.23	994.07	2.81
995.72	1.67	994.88	2.24	994.06	2.82
995.70	1.68	994.86	2.26	994.04	2.83
995.68	1.69	994.84	2.27	994.02	2.85
995.66	1.70	994.83	2.28	994.00	2.86
995.64	1.72	994.81	2.29	993.99	2.87
995.63	1.73	994.79	2.31	993.97	2.88
995.61	1.74	994.77	2.32	993.95	2.90
995.59	1.75	994.75	2.33	993.93	2.91
995.57	1.77	994.74	2.34	993.91	2.92
995.55	1.78	994.72	2.36	993.90	2.93
995.53	1.79	994.70	2.37	993.88	2.95
995.52	1.80	994.68	2.38	993.86	2.96
995.50	1.82	994.66	2.39	993.84	2.97
995.48	1.83	994.65	2.41	993.83	2.98
995.46	1.84	994.63	2.42	993.81	3.00
995.44	1.85	994.61	2.43	993.79	3.01
995.42	1.87	994.59	2.44	993.77	3.02
995.41	1.88	994.57	2.46	993.76	3.03
995.39	1.89	994.56	2.47	993.74	3.05
995.37	1.90	994.54	2.48	993.72	3.06
995.35	1.92	994.52	2.50	993.70	3.07
995.33	1.93	994.50	2.51	993.69	3.08
995.32	1.94	994.48	2.52	993.67	3.10
995.30	1.95	994.47	2.53	993.65	3.11
995.28	1.97	994.45	2.55	993.63	3.12
995.26	1.98	994.43	2.56	993.61	3.13
995.24	1.99	994.41	2.57	993.60	3.15
995.22	2.01	994.40	2.58	993.58	3.16
995.21	2.02	994.38	2.60	993.56	3.17
995.19	2.03	994.36	2.61	993.54	3.18
995.17	2.04	994.34	2.62	993.53	3.20
995.15	2.06	994.32	2.63	993.51	3.21
995.13	2.07	994.31	2.65	993.49	3.22
995.12	2.08	994.29	2.66	993.47	3.24

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
993.46	3.25	992.66	3.82	991.87	4.40
993.44	3.26	992.64	3.84	991.85	4.41
993.42	3.27	992.62	3.85	991.83	4.42
993.40	3.29	992.60	3.86	991.82	4.44
993.39	3.30	992.59	3.87	991.80	4.45
993.37	3.31	992.57	3.89	991.78	4.46
993.35	3.32	992.55	3.90	991.77	4.47
993.33	3.34	992.54	3.91	991.75	4.49
993.32	3.35	992.52	3.92	991.73	4.50
993.30	3.36	992.50	3.94	991.71	4.51
993.28	3.37	992.48	3.95	991.70	4.52
993.26	3.39	992.47	3.96	991.68	4.54
993.25	3.40	992.45	3.97	991.66	4.55
993.23	3.41	992.43	3.99	991.65	4.56
993.21	3.42	992.41	4.00	991.63	4.57
993.19	3.44	992.40	4.01	991.61	4.59
993.18	3.45	992.38	4.02	991.60	4.60
993.16	3.46	992.36	4.04	991.58	4.61
993.14	3.47	992.35	4.05	991.56	4.62
993.12	3.49	992.33	4.06	991.54	4.64
993.11	3.50	992.31	4.07	991.53	4.65
993.09	3.51	992.29	4.09	991.51	4.66
993.07	3.52	992.28	4.10	991.49	4.67
993.05	3.54	992.26	4.11	991.48	4.69
993.04	3.55	992.24	4.12	991.46	4.70
993.02	3.56	992.23	4.14	991.44	4.71
993.00	3.57	992.21	4.15	991.43	4.72
992.99	3.59	992.19	4.16	991.41	4.74
992.97	3.60	992.17	4.17	991.39	4.75
992.95	3.61	992.16	4.19	991.38	4.76
992.93	3.62	992.14	4.20	991.36	4.77
992.92	3.64	992.12	4.21	991.34	4.79
992.90	3.65	992.11	4.22	991.33	4.80
992.88	3.66	992.09	4.24	991.31	4.81
992.86	3.67	992.07	4.25	991.29	4.82
992.85	3.69	992.05	4.26	991.28	4.84
992.83	3.70	992.04	4.27	991.26	4.85
992.81	3.71	992.02	4.29	991.24	4.86
992.79	3.72	992.00	4.30	991.22	4.87
992.78	3.74	991.99	4.31	991.21	4.89
992.76	3.75	991.97	4.32	991.19	4.90
992.74	3.76	991.95	4.34	991.17	4.91
992.72	3.77	991.94	4.35	991.16	4.92
992.71	3.79	991.92	4.36	991.14	4.94
992.69	3.80	991.90	4.37	991.12	4.95
992.67	3.81	991.88	4.39	991.11	4.96

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
991.09	4.97	990.33	5.55	989.57	6.12
991.07	4.99	990.31	5.56	989.56	6.13
991.06	5.00	990.29	5.57	989.54	6.14
991.04	5.01	990.28	5.58	989.52	6.16
991.02	5.02	990.26	5.60	989.51	6.17
991.01	5.04	990.24	5.61	989.49	6.18
990.99	5.05	990.23	5.62	989.47	6.19
990.97	5.06	990.21	5.63	989.46	6.21
990.96	5.07	990.19	5.65	989.44	6.22
990.94	5.09	990.18	5.66	989.43	6.23
990.92	5.10	990.16	5.67	989.41	6.24
990.91	5.11	990.14	5.68	989.39	6.26
990.89	5.12	990.13	5.70	989.38	6.27
990.87	5.13	990.11	5.71	989.36	6.28
990.86	5.15	990.09	5.72	989.34	6.29
990.84	5.16	990.08	5.73	989.33	6.31
990.82	5.17	990.06	5.75	989.31	6.32
990.81	5.18	990.05	5.76	989.30	6.33
990.79	5.20	990.03	5.77	989.28	6.34
990.77	5.21	990.01	5.78	989.26	6.36
990.76	5.22	990.00	5.80	989.25	6.37
990.74	5.23	989.98	5.81	989.23	6.38
990.72	5.25	989.96	5.82	989.21	6.39
990.71	5.26	989.95	5.83	989.20	6.40
990.69	5.27	989.93	5.85	989.18	6.42
990.67	5.28	989.91	5.86	989.17	6.43
990.66	5.30	989.90	5.87	989.15	6.44
990.64	5.31	989.88	5.88	989.13	6.45
990.62	5.32	989.87	5.89	989.12	6.47
990.61	5.33	989.85	5.91	989.10	6.48
990.59	5.35	989.83	5.92	989.09	6.49
990.57	5.36	989.82	5.93	989.07	6.50
990.56	5.37	989.80	5.94	989.05	6.52
990.54	5.38	989.78	5.96	989.04	6.53
990.52	5.40	989.77	5.97	989.02	6.54
990.51	5.41	989.75	5.98	989.01	6.55
990.49	5.42	989.73	5.99	988.99	6.57
990.47	5.43	989.72	6.01	988.97	6.58
990.46	5.45	989.70	6.02	988.96	6.59
990.44	5.46	989.69	6.03	988.94	6.60
990.42	5.47	989.67	6.04	988.92	6.62
990.41	5.48	989.65	6.06	988.91	6.62
990.39	5.50	989.64	6.07	988.89	6.64
990.37	5.51	989.62	6.08	988.88	6.65
990.36	5.52	989.60	6.09	988.86	6.67
990.34	5.53	989.59	6.11	988.84	6.68

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
988.83	6.69	988.11	7.25	987.39	7.82
988.81	6.70	988.10	7.26	987.37	7.83
988.80	6.72	988.08	7.27	987.36	7.84
988.78	6.73	988.06	7.29	987.34	7.66
988.76	6.74	988.05	7.30	987.33	7.87
988.75	6.75	988.03	7.31	987.31	7.88
988.73	6.77	988.02	7.32	987.30	7.89
988.72	6.78	988.00	7.34	987.28	7.91
988.70	6.79	987.99	7.35	987.27	7.92
988.68	6.80	987.97	7.36	987.25	7.93
988.67	6.81	987.95	7.37	987.23	7.94
988.65	6.83	987.94	7.39	987.22	7.96
988.64	6.84	987.92	7.40	987.20	7.97
988.62	6.85	987.91	7.41	987.19	7.98
988.60	6.86	987.89	7.42	987.17	7.99
988.59	6.88	987.88	7.44	987.16	8.01
988.57	6.89	987.86	7.45	987.14	8.02
988.56	6.90	987.84	7.46	987.13	8.03
988.54	6.91	987.83	7.47	987.11	8.04
988.52	6.93	987.81	7.48	987.09	8.05
988.51	6.94	987.80	7.50	987.08	8.07
988.49	6.95	987.78	7.51	987.06	8.08
988.48	6.96	987.77	7.52	987.05	8.09
988.46	6.98	987.75	7.53	987.03	8.10
988.45	6.99	987.73	7.55	987.02	8.12
988.43	7.00	987.72	7.56	987.00	8.13
988.41	7.01	987.70	7.57	986.99	8.14
988.40	7.03	987.69	7.58	986.97	8.15
988.38	7.04	987.67	7.60	986.96	8.17
988.37	7.05	987.66	7.61	986.94	8.18
988.35	7.06	987.64	7.62	986.92	8.19
988.33	7.08	987.62	7.63	986.91	8.20
988.32	7.09	987.61	7.65	986.89	8.22
988.30	7.10	987.59	7.66	986.88	8.23
988.29	7.11	987.58	7.67	986.86	8.24
988.27	7.12	987.56	7.68	986.85	8.25
988.25	7.14	987.55	7.70	986.83	8.26
988.24	7.15	987.53	7.71	986.82	8.28
988.22	7.16	987.51	7.72	986.80	8.29
988.21	7.17	987.50	7.73	986.79	8.30
988.19	7.19	987.48	7.74	986.77	8.31
988.18	7.20	987.47	7.76	986.75	8.33
988.16	7.21	987.45	7.77	986.74	8.34
988.14	7.22	987.44	7.78	986.72	8.35
988.13	7.24	987.42	7.79	986.71	8.36
		987.41	7.81	986.69	8.38

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
986.68	8.39	985.98	8.96	985.28	9.53
986.66	8.40	985.96	8.97	985.27	9.54
986.65	8.41	985.94	8.98	985.25	9.55
986.63	8.43	985.93	8.99	985.24	9.56
986.62	8.44	985.91	9.01	985.22	9.57
986.60	8.45	985.90	9.02	985.21	9.59
986.59	8.46	985.88	9.03	985.19	9.60
986.57	8.48	985.87	9.04	985.18	9.61
986.55	8.49	985.85	9.06	985.16	9.62
986.54	8.50	985.84	9.07	985.15	9.64
986.52	8.51	985.82	9.08	985.13	9.65
986.51	8.52	985.81	9.09	985.12	9.66
986.49	8.54	985.79	9.11	985.10	9.67
986.48	8.55	985.78	9.12	985.09	9.69
986.46	8.56	985.76	9.13	985.07	9.70
986.45	8.57	985.75	9.14	985.06	9.71
986.43	8.59	985.73	9.16	985.04	9.72
986.42	8.60	985.72	9.17	985.03	9.74
986.40	8.61	985.70	9.18	985.01	9.75
986.39	8.62	985.69	9.19	985.00	9.76
986.37	8.64	985.67	9.20	984.98	9.77
986.36	8.65	985.66	9.22	984.97	9.78
986.34	8.66	985.64	9.23	984.95	9.80
986.33	8.67	985.63	9.24	984.94	9.81
986.31	8.69	985.61	9.25	984.92	9.82
986.29	8.70	985.60	9.27	984.91	9.83
986.28	8.71	985.58	9.28	984.89	9.85
986.26	8.72	985.57	9.29	984.88	9.86
986.25	8.73	985.55	9.30	984.86	9.87
986.23	8.75	985.54	9.32	984.85	9.88
986.22	8.76	985.52	9.33	984.84	9.90
986.20	8.77	985.51	9.34	984.84	9.91
986.19	8.78	985.49	9.35	984.81	9.92
986.17	8.80	985.48	9.36	984.79	9.93
986.16	8.81	985.46	9.38	984.78	9.94
986.14	8.82	985.45	9.39	984.76	9.96
986.13	8.83	985.43	9.40	984.75	9.97
986.11	8.85	985.42	9.41	984.73	9.98
986.10	8.86	985.40	9.43	984.72	9.99
986.08	8.87	985.39	9.44	984.70	10.01
986.07	8.88	985.37	9.45	984.69	10.02
986.05	8.90	985.36	9.46	984.67	10.03
986.04	8.91	985.34	9.48	984.66	10.04
986.02	8.92	985.33	9.49	984.64	10.06
986.01	8.93	985.31	9.50	984.63	10.07
985.99	8.95	985.30	9.51	984.61	10.08

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
984.60	10.09	983.92	10.66	983.26	11.23
984.58	10.10	983.91	10.67	983.24	11.24
984.57	10.12	983.89	10.68	983.23	11.25
984.55	10.13	983.88	10.70	983.21	11.26
984.54	10.14	983.86	10.71	983.20	11.27
984.52	10.15	983.85	10.72	983.18	11.29
984.51	10.17	983.84	10.73	983.17	11.30
984.49	10.18	983.82	10.75	983.15	11.31
984.48	10.19	983.81	10.76	983.14	11.32
984.47	10.20	983.79	10.77	983.13	11.34
984.45	10.22	983.78	10.78	983.11	11.35
984.44	10.23	983.76	10.79	983.10	11.36
984.42	10.24	983.75	10.81	983.08	11.37
984.41	10.25	983.73	10.82	983.07	11.38
984.39	10.27	983.72	10.83	983.05	11.40
984.38	10.28	983.70	10.84	983.04	11.41
984.36	10.29	983.69	10.86	983.03	11.42
984.35	10.30	983.68	10.87	983.01	11.42
984.33	10.31	983.66	10.88	983.00	11.45
984.32	10.33	983.65	10.89	982.98	11.46
984.30	10.34	983.63	10.91	982.97	11.47
984.29	10.35	983.62	10.92	982.95	11.48
984.27	10.36	983.60	10.93	982.94	11.50
984.26	10.38	983.59	10.94	982.93	11.51
984.24	10.39	983.57	10.95	982.91	11.52
984.23	10.40	983.56	10.97	982.90	11.53
984.22	10.41	983.54	10.98	982.88	11.54
984.20	10.43	983.53	10.99	982.87	11.56
984.19	10.44	983.52	11.00	982.85	11.57
984.17	10.45	983.50	11.02	982.84	11.58
984.16	10.46	983.49	11.03	982.82	11.59
984.14	10.47	983.47	11.04	982.81	11.61
984.13	10.49	983.46	11.05	982.80	11.62
984.11	10.50	983.44	11.07	982.78	11.63
984.10	10.51	983.43	11.08	982.77	11.64
984.08	10.52	983.41	11.09	982.75	11.66
984.07	10.54	983.40	11.10	982.74	11.67
984.05	10.55	983.39	11.11	982.72	11.68
984.04	10.56	983.37	11.13	982.71	11.69
984.03	10.57	983.36	11.14	982.70	11.70
984.01	10.59	983.34	11.15	982.68	11.72
984.00	10.60	983.33	11.16	982.67	11.73
983.98	10.61	983.31	11.18	982.65	11.74
983.97	10.62	983.30	11.19	982.64	11.75
983.95	10.63	983.28	11.20	982.63	11.77
983.94	10.65	983.27	11.21	982.61	11.78

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
982.60	11.79	981.94	12.35	981.30	12.92
982.58	11.80	981.93	12.37	981.29	12.93
982.57	11.81	981.92	12.38	981.27	12.94
982.55	11.83	981.90	12.39	981.26	12.96
982.54	11.84	981.89	12.40	981.24	12.97
982.53	11.85	981.87	12.42	981.23	12.98
982.51	11.86	981.86	12.43	981.22	12.99
982.50	11.88	981.85	12.44	981.20	13.00
982.48	11.89	981.83	12.45	981.19	13.02
982.47	11.90	981.82	12.47	981.18	13.03
982.45	11.91	981.80	12.48	981.16	13.04
982.44	11.93	981.79	12.49	981.15	13.05
982.43	11.94	981.78	12.50	981.13	13.07
982.41	11.95	981.76	12.51	981.12	13.08
982.40	11.96	981.75	12.53	981.11	13.09
982.38	11.97	981.73	12.54	981.09	13.10
982.37	11.99	981.72	12.55	981.08	13.11
982.35	12.00	981.71	12.56	981.06	13.12
982.34	12.01	981.69	12.58	981.05	13.14
982.33	12.02	981.68	12.59	981.04	13.15
982.31	12.04	981.66	12.60	981.02	13.16
982.30	12.05	981.65	12.61	981.01	13.18
982.28	12.06	981.64	12.62	980.99	13.19
982.27	12.07	981.62	12.64	980.98	13.20
982.26	12.08	981.61	12.65	980.97	13.21
982.24	12.10	981.59	12.66	980.95	13.22
982.23	12.11	981.58	12.67	980.94	13.24
982.21	12.12	981.57	12.69	980.93	13.25
982.20	12.13	981.55	12.70	980.91	13.26
982.18	12.15	981.54	12.71	980.90	13.27
982.17	12.16	981.52	12.72	980.88	13.29
982.16	12.17	981.51	12.73	980.87	13.30
982.14	12.18	981.50	12.75	980.86	13.31
982.13	12.20	981.48	12.76	980.84	13.32
982.11	12.21	981.47	12.77	980.83	13.33
982.10	12.22	981.45	12.78	980.81	13.35
982.09	12.23	981.44	12.80	980.80	13.36
982.07	12.24	981.43	12.81	980.79	13.37
982.06	12.26	981.41	12.82	980.77	13.38
982.04	12.27	981.40	12.83	980.76	13.40
982.03	12.28	981.38	12.85	980.75	13.41
982.02	12.29	981.37	12.86	980.73	13.42
982.00	12.31	981.36	12.87	980.72	13.42
981.99	12.32	981.34	12.88	980.70	13.45
981.97	12.33	981.33	12.89	980.69	13.46
981.96	12.34	981.31	12.91	980.68	13.47



表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
980.66	13.48	980.03	14.04	979.41	14.61
980.65	13.49	980.02	14.06	979.39	14.62
980.64	13.51	980.00	14.07	979.38	14.63
980.62	13.52	979.99	14.08	979.36	14.64
980.61	13.53	979.98	14.09	979.35	14.65
980.59	13.54	979.96	14.11	979.34	14.67
980.58	13.56	979.95	14.12	979.32	14.68
980.57	13.57	979.94	14.13	979.31	14.69
980.55	13.58	979.92	14.14	979.30	14.70
980.54	13.59	979.91	14.15	979.28	14.72
980.52	13.60	979.89	14.17	979.27	14.73
980.51	13.62	979.88	14.18	979.26	14.74
980.50	13.63	979.87	14.19	979.24	14.75
980.48	13.64	979.85	14.20	979.23	14.76
980.47	13.65	979.84	14.22	979.22	14.78
980.46	13.67	979.83	14.23	979.20	14.79
980.44	13.68	979.81	14.24	979.19	14.80
980.43	13.69	979.80	14.25	979.18	14.81
980.41	13.70	979.79	14.26	979.16	14.83
980.40	13.71	979.77	14.28	979.15	14.84
980.39	13.73	979.76	14.29	979.13	14.85
980.37	13.74	979.74	14.30	979.12	14.86
980.36	13.75	979.73	14.31	979.11	14.87
980.35	13.76	979.72	14.33	979.09	14.89
980.33	13.78	979.70	14.34	979.08	14.90
980.32	13.79	979.69	14.35	979.07	14.91
980.31	13.80	979.68	14.36	979.05	14.92
980.29	13.81	979.66	14.37	979.04	14.94
980.28	13.82	979.65	14.39	979.03	14.95
980.26	13.84	979.64	14.40	979.01	14.96
980.25	13.85	979.62	14.41	979.00	14.97
980.24	13.86	979.61	14.42	978.99	14.98
980.22	13.87	979.60	14.44	978.97	15.00
980.21	13.89	979.58	14.45	978.96	15.01
980.20	13.90	979.57	14.46	978.95	15.02
980.18	13.91	979.55	14.47	978.93	15.03
980.17	13.92	979.54	14.48	978.92	15.05
980.15	13.93	979.53	14.50	978.91	15.06
980.14	13.95	979.51	14.51	978.89	15.07
980.13	13.96	979.50	14.52	978.88	15.08
980.11	13.97	979.49	14.53	978.87	15.09
980.10	13.98	979.47	14.55	978.85	15.11
980.09	14.00	979.46	14.56	978.84	15.12
980.07	14.01	979.45	14.57	978.83	15.13
980.06	14.02	979.43	14.58	978.81	15.14
980.04	14.03	979.42	14.59	978.80	15.16

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
978.78	15.17	978.17	15.73	977.56	16.29
978.77	15.18	978.16	15.74	977.54	16.30
978.76	15.19	978.14	15.75	977.53	16.31
978.74	15.20	978.13	15.76	977.52	16.32
978.73	15.22	978.12	15.78	977.50	16.34
978.72	15.23	978.10	15.79	977.49	16.35
978.70	15.24	978.09	15.80	977.48	16.36
978.69	15.25	978.08	15.81	977.46	16.37
978.68	15.26	978.06	15.83	977.45	16.39
978.66	15.28	978.05	15.84	977.44	16.40
978.65	15.29	978.04	15.85	977.43	16.41
978.64	15.30	978.02	15.86	977.41	16.42
978.62	15.31	978.01	15.87	977.40	16.43
978.61	15.33	978.00	15.89	977.39	16.45
978.60	15.34	977.98	15.90	977.37	16.46
978.58	15.35	977.97	15.91	977.36	16.47
978.57	15.36	977.96	15.92	977.35	16.48
978.56	15.37	977.94	15.93	977.33	16.49
978.54	15.39	977.93	15.95	977.32	16.51
978.53	15.40	977.92	15.96	977.31	16.52
978.52	15.41	977.90	15.97	977.29	16.53
978.50	15.42	977.89	15.98	977.28	16.54
978.49	15.44	977.88	16.00	977.27	16.56
978.48	15.45	977.86	16.01	977.25	16.57
978.46	15.46	977.85	16.02	977.24	16.58
978.45	15.47	977.84	16.03	977.23	16.59
978.44	15.48	977.82	16.04	977.21	16.60
978.42	15.50	977.81	16.06	977.20	16.62
978.41	15.51	977.80	16.07	977.19	16.63
978.40	15.52	977.78	16.08	977.17	16.64
978.38	15.53	977.77	16.09	977.16	16.65
978.37	15.55	977.76	16.11	977.15	16.66
978.36	15.56	977.74	16.12	977.13	16.68
978.34	15.57	977.73	16.13	977.12	16.69
978.33	15.58	977.72	16.14	977.11	16.70
978.32	15.59	977.70	16.15	977.09	16.71
978.30	15.61	977.69	16.17	977.08	16.73
978.29	15.62	977.68	16.18	977.07	16.74
978.28	15.63	977.66	16.19	977.06	16.75
978.26	15.64	977.65	16.20	977.04	16.76
978.25	15.65	977.64	16.21	977.03	16.77
978.24	15.67	977.62	16.23	977.02	16.79
978.22	15.68	977.61	16.24	977.00	16.80
978.21	15.69	977.60	16.25	976.99	16.81
978.20	15.70	977.58	16.26	976.98	16.82
978.18	15.72	977.57	16.28	976.96	16.84

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
976.95	16.85	976.35	17.41	975.74	17.96
976.94	16.86	976.33	17.42	975.73	17.98
976.92	16.87	976.32	17.43	975.72	17.99
976.91	16.88	976.31	17.44	975.70	18.00
976.90	16.90	976.29	17.45	975.69	18.01
976.88	16.91	976.28	17.47	975.68	18.02
976.87	16.92	976.27	17.48	975.67	18.04
976.86	16.93	976.25	17.49	975.65	18.05
976.84	16.94	976.24	17.50	975.64	18.06
976.83	16.96	976.23	17.52	975.63	18.07
976.82	16.97	976.21	17.53	975.61	18.08
976.81	16.98	976.20	17.54	975.60	18.10
976.79	16.99	976.19	17.55	975.59	18.11
976.78	17.01	976.18	17.56	975.57	18.12
976.77	17.02	976.16	17.58	975.56	18.13
976.75	17.03	976.15	17.59	975.55	18.15
976.74	17.04	976.14	17.60	975.53	18.16
976.73	17.05	976.12	17.61	975.52	18.17
976.71	17.07	976.11	17.62	975.51	18.18
976.70	17.08	976.10	17.64	975.50	18.19
976.69	17.09	976.08	17.65	975.48	18.21
976.67	17.10	976.07	17.66	975.47	18.22
976.66	17.11	976.06	17.67	975.46	18.23
976.65	17.13	976.04	17.68	975.44	18.24
976.63	17.14	976.03	17.70	975.43	18.25
976.62	17.15	976.02	17.71	975.42	18.27
976.61	17.16	976.00	17.72	975.40	18.28
976.59	17.18	975.99	17.73	975.39	18.29
976.58	17.19	975.98	17.75	975.38	18.30
976.57	17.20	975.97	17.76	975.37	18.32
976.56	17.21	975.95	17.77	975.35	18.33
976.54	17.22	975.94	17.78	975.34	18.34
976.53	17.24	975.93	17.79	975.33	18.35
976.52	17.25	975.91	17.81	975.31	18.36
976.50	17.26	975.90	17.82	975.30	18.38
976.49	17.27	975.89	17.83	975.29	18.39
976.48	17.28	975.87	17.84	975.27	18.40
976.46	17.30	975.86	17.85	975.26	18.41
976.45	17.31	975.85	17.87	975.25	18.42
976.44	17.32	975.84	17.88	975.24	18.44
976.42	17.33	975.82	17.89	975.22	18.45
976.41	17.35	975.81	17.90	975.21	18.46
976.40	17.36	975.80	17.92	975.20	18.47
976.38	17.37	975.78	17.93	975.18	18.48
976.37	17.38	975.77	17.94	975.17	18.50
976.36	17.39	975.76	17.95	975.16	18.51

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
975.14	18.52	974.55	19.08	973.95	19.60
975.13	18.53	974.53	19.09	973.94	19.65
975.12	18.55	974.52	19.10	973.92	19.66
975.11	18.56	974.51	19.11	973.91	19.67
975.09	18.57	974.49	19.13	973.90	19.68
975.08	18.58	974.48	19.14	973.88	19.69
975.07	18.59	974.47	19.15	973.87	19.71
975.05	18.61	974.46	19.16	973.86	19.72
975.04	18.62	974.44	19.17	973.85	19.73
975.03	18.62	974.43	19.19	973.83	19.74
975.01	18.64	974.42	19.20	973.82	19.75
975.00	18.65	974.40	19.21	973.81	19.77
974.99	18.67	974.39	19.22	973.79	19.78
974.97	18.68	974.38	19.23	973.78	19.79
974.96	18.69	974.36	19.25	973.77	19.80
974.95	18.70	974.35	19.26	973.75	19.81
974.94	18.71	974.34	19.27	973.74	19.83
974.92	18.73	974.33	19.28	973.73	19.84
974.91	18.74	974.31	19.30	973.72	19.85
974.90	18.75	974.30	19.31	973.70	19.86
974.88	18.76	974.29	19.32	973.69	19.88
974.87	18.78	974.27	19.33	973.68	19.89
974.86	18.79	974.26	19.34	973.66	19.90
974.84	18.80	974.25	19.36	973.65	19.91
974.83	18.81	974.23	19.37	973.64	19.92
974.82	18.82	974.22	19.38	973.62	19.94
974.81	18.84	974.21	19.39	973.61	19.95
974.79	18.85	974.20	19.40	973.60	19.96
974.78	18.86	974.18	19.42	973.59	19.97
974.77	18.87	974.17	19.43	973.57	19.98
974.75	18.88	974.16	19.44	973.56	20.00
974.74	18.90	974.14	19.45	973.55	20.01
974.73	18.91	974.13	19.46	973.53	20.02
974.71	18.92	974.12	19.48	973.52	20.03
974.70	18.93	974.10	19.49	973.51	20.04
974.69	18.94	974.09	19.50	973.50	20.06
974.68	18.96	974.08	19.51	973.48	20.07
974.66	18.97	974.07	19.53	973.47	20.08
974.65	18.98	974.05	19.54	973.46	20.09
974.64	18.99	974.04	19.55	973.44	20.10
974.62	19.01	974.03	19.56	973.43	20.12
974.61	19.02	974.01	19.57	973.42	20.13
974.60	19.03	974.00	19.59	973.40	20.14
974.59	19.04	973.99	19.60	973.39	20.15
974.57	19.05	973.98	19.61	973.38	20.16
974.56	19.07	973.96	19.62	973.37	20.18

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
973.35	20.19	972.76	20.74	972.16	21.30
973.34	20.20	972.74	20.76	972.15	21.31
973.33	20.21	972.73	20.77	972.13	21.32
973.31	20.23	972.72	20.78	972.12	21.33
973.30	20.24	972.70	20.79	972.11	21.35
973.29	20.25	972.69	20.80	972.09	21.36
973.28	20.26	972.68	20.82	972.08	21.37
973.26	20.27	972.67	20.83	972.07	21.38
973.25	20.29	972.65	20.84	972.05	21.39
973.24	20.30	972.64	20.85	972.04	21.41
973.22	20.31	972.63	20.86	972.03	21.42
973.21	20.32	972.61	20.88	972.02	21.43
973.20	20.33	972.60	20.89	972.00	21.44
973.18	20.35	972.59	20.90	971.99	21.45
973.17	20.36	972.57	20.91	971.98	21.47
973.16	20.37	972.56	20.92	971.96	21.48
973.15	20.38	972.55	20.94	971.95	21.49
973.13	20.39	972.54	20.95	971.94	21.50
973.12	20.41	972.52	20.96	971.93	21.51
973.11	20.42	972.51	20.97	971.91	21.53
973.09	20.43	972.50	20.98	971.90	21.54
973.08	20.44	972.48	21.00	971.89	21.55
973.07	20.45	972.47	21.01	971.87	21.56
973.05	20.47	972.46	21.02	971.86	21.57
973.04	20.48	972.45	21.03	971.85	21.59
973.03	20.49	972.43	21.04	971.83	21.60
973.02	20.50	972.42	21.06	971.82	21.61
973.00	20.51	972.41	21.07	971.81	21.62
972.99	20.53	972.39	21.08	971.80	21.63
972.98	20.54	972.38	21.09	971.78	21.65
972.96	20.55	972.37	21.10	971.77	21.66
972.95	20.56	972.35	21.12	971.76	21.67
972.94	20.57	972.34	21.13	971.74	21.68
972.92	20.59	972.33	21.14	971.73	21.69
972.91	20.60	972.32	21.15	971.72	21.71
972.90	20.61	972.30	21.17	971.70	21.72
972.89	20.62	972.29	21.18	971.69	21.73
972.87	20.64	972.28	21.19	971.68	21.74
972.86	20.65	972.26	21.20	971.67	21.75
972.85	20.66	972.25	21.21	971.65	21.77
972.83	20.67	972.24	21.23	971.64	21.78
972.82	20.68	972.22	21.24	971.63	21.79
972.81	20.70	972.21	21.25	971.61	21.80
972.80	20.71	972.20	21.26	971.60	21.81
972.78	20.72	972.19	21.27	971.59	21.83
972.77	20.73	972.17	21.29	971.57	21.84

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
971.56	21.85	970.96	22.40	970.36	22.95
971.55	21.86	970.95	22.42	970.35	22.97
971.54	21.87	970.94	22.43	970.33	22.98
971.52	21.89	970.92	22.44	970.32	22.99
971.51	21.90	970.91	22.45	970.31	23.00
971.50	21.91	970.90	22.46	970.29	23.01
971.48	21.92	970.88	22.48	970.28	23.03
971.47	21.93	970.87	22.49	970.27	23.04
971.46	21.95	970.86	22.50	970.26	23.05
971.44	21.96	970.84	22.51	970.24	23.06
971.43	21.97	970.83	22.52	970.23	23.07
971.42	21.98	970.82	22.54	970.22	23.09
971.41	21.99	970.81	22.55	970.20	23.10
971.39	22.01	970.79	22.56	970.19	23.11
971.38	22.02	970.78	22.57	970.18	23.12
971.37	22.03	970.77	22.58	970.16	23.13
971.35	22.04	970.75	22.60	970.15	23.15
971.34	22.05	970.74	22.61	970.14	23.16
971.33	22.07	970.73	22.62	970.12	23.17
971.31	22.08	970.71	22.63	970.11	23.18
971.30	22.09	970.70	22.64	970.10	23.19
971.29	22.10	970.69	22.66	970.09	23.21
971.28	22.11	970.67	22.67	970.07	23.22
971.26	22.13	970.66	22.68	970.06	23.23
971.25	22.14	970.65	22.69	970.05	23.24
971.24	22.15	970.64	22.70	970.03	23.25
971.22	22.16	970.62	22.72	970.02	23.27
971.21	22.18	970.61	22.73	970.01	23.28
971.20	22.19	970.60	22.74	969.99	23.29
971.18	22.20	970.58	22.75	969.98	23.30
971.17	22.21	970.57	22.76	969.97	23.31
971.16	22.22	970.56	22.78	969.95	23.33
971.14	22.24	970.54	22.79	969.94	23.34
971.13	22.25	970.53	22.80	969.93	23.35
971.12	22.26	970.52	22.81	969.91	23.36
971.11	22.27	970.50	22.82	969.90	23.37
971.09	22.28	970.49	22.83	969.89	23.39
971.08	22.30	970.48	22.85	969.87	23.40
971.07	22.31	970.47	22.86	969.86	23.41
971.05	22.32	970.45	22.87	969.85	23.42
971.04	22.33	970.44	22.88	969.84	23.43
971.03	22.34	970.43	22.89	969.82	23.45
971.01	22.36	970.41	22.91	969.81	23.46
971.00	22.37	970.40	22.92	969.80	23.47
970.99	22.38	970.39	22.93	969.78	23.48
970.98	22.39	970.37	22.94	969.77	23.49

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
969.76	23.51	969.15	24.06	968.54	24.61
969.74	23.52	969.14	24.07	968.53	24.62
969.73	23.53	969.12	24.08	968.51	24.62
969.72	23.54	969.11	24.09	968.50	24.64
969.70	23.55	969.10	24.10	968.49	24.65
969.69	23.57	969.08	24.12	968.47	24.66
969.68	23.58	969.07	24.13	968.46	24.68
969.66	23.59	969.06	24.14	968.45	24.69
969.65	23.60	969.04	24.15	968.43	24.70
969.64	23.61	969.03	24.16	968.42	24.71
969.62	23.63	969.02	24.18	968.41	24.72
969.61	23.64	969.00	24.19	968.39	24.74
969.60	23.65	968.99	24.20	968.38	24.75
969.59	23.66	968.98	24.21	968.37	24.76
969.57	23.67	968.96	24.22	968.35	24.77
969.56	23.69	968.95	24.24	968.34	24.78
969.55	23.70	968.94	24.25	968.32	24.80
969.53	23.71	968.92	24.26	968.31	24.81
969.52	23.72	968.91	24.27	968.30	24.82
969.51	23.73	968.90	24.28	968.28	24.83
969.49	23.75	968.88	24.29	968.27	24.84
969.48	23.76	968.87	24.31	968.26	24.86
969.47	23.77	968.86	24.32	968.24	24.87
969.45	23.78	968.84	24.33	968.23	24.88
969.44	23.79	968.83	24.34	968.22	24.89
969.43	23.80	968.82	24.35	968.20	24.90
969.41	23.82	968.80	24.37	968.19	24.92
969.40	23.83	968.79	24.38	968.18	24.93
969.39	23.84	968.78	24.39	968.16	24.94
969.37	23.85	968.76	24.40	968.15	24.95
969.36	23.86	968.75	24.41	968.14	24.96
969.35	23.88	968.74	24.42	968.12	24.97
969.33	23.89	968.72	24.44	968.11	24.99
969.32	23.90	968.71	24.45	968.10	25.00
969.31	23.91	968.70	24.46	968.08	25.01
969.29	23.92	968.68	24.47	968.07	25.02
969.28	23.94	968.67	24.49	968.06	25.03
969.27	23.95	968.66	24.50	968.04	25.05
969.25	23.96	968.64	24.51	968.03	25.06
969.24	23.97	968.63	24.52	968.02	25.07
969.23	23.98	968.62	24.53	968.00	25.08
969.22	24.00	968.60	24.55	967.99	25.09
969.20	24.01	968.59	24.56	967.98	25.11
969.19	24.02	968.58	24.57	967.96	25.12
969.18	24.03	968.56	24.58	967.95	25.13
969.16	24.04	968.55	24.59	967.94	25.14

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
967.92	25.15	967.30	25.70	966.68	26.25
967.91	25.17	967.29	25.71	966.67	26.26
967.90	25.18	967.28	25.73	966.65	26.27
967.88	25.19	967.26	25.74	966.64	26.28
967.87	25.20	967.25	25.75	966.63	26.30
967.86	25.21	967.24	25.76	966.61	26.31
967.84	25.23	967.22	25.77	966.60	26.32
967.83	25.24	967.21	25.78	966.59	26.33
967.82	25.25	967.20	25.80	966.57	26.34
967.80	25.26	967.18	25.81	966.56	26.36
967.79	25.27	967.17	25.82	966.54	26.37
967.78	25.28	967.16	25.83	966.53	26.38
967.76	25.30	967.14	25.84	966.52	26.39
967.75	25.31	967.13	25.86	966.50	26.40
967.74	25.32	967.12	25.87	966.49	26.41
967.72	25.33	967.10	25.88	966.48	26.43
967.71	25.34	967.09	25.89	966.46	26.44
967.70	25.36	967.07	25.90	966.45	26.45
967.68	25.37	967.06	25.92	966.43	26.46
967.67	25.38	967.05	25.93	966.42	26.47
967.65	25.39	967.03	25.94	966.41	26.49
967.64	25.40	967.02	25.95	966.39	26.50
967.63	25.42	967.01	25.96	966.38	26.51
967.61	25.43	966.99	25.98	966.37	26.52
967.60	25.44	966.98	25.99	966.35	26.53
967.59	25.45	966.97	26.00	966.34	26.55
967.57	25.46	966.95	26.01	966.33	26.56
967.56	25.48	966.94	26.02	966.31	26.57
967.55	25.49	966.93	26.03	966.30	26.58
967.53	25.50	966.91	26.05	966.28	26.59
967.52	25.51	966.90	26.06	966.27	26.60
967.51	25.52	966.88	26.07	966.26	26.62
967.49	25.53	966.87	26.08	966.24	26.63
967.48	25.55	966.86	26.09	966.23	26.64
967.47	25.56	966.84	26.11	966.22	26.65
967.45	25.57	966.83	26.12	966.20	26.66
967.44	25.58	966.82	26.13	966.19	26.68
967.43	25.59	966.80	26.14	966.17	26.69
967.41	25.61	966.79	26.15	966.16	26.70
967.40	25.62	966.78	26.17	966.15	26.71
967.39	25.63	966.76	26.18	966.13	26.72
967.37	25.64	966.75	26.19	966.12	26.73
967.36	25.65	966.73	26.20	966.11	26.75
967.34	25.67	966.72	26.21	966.09	26.76
967.33	25.68	966.71	26.22	966.08	26.77
967.32	25.69	966.69	26.24	966.06	26.78



表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
966.05	26.79	965.42	27.34	964.78	27.88
966.04	25.81	965.40	27.35	964.76	27.90
966.02	26.82	965.39	27.36	964.75	27.91
966.01	26.83	965.37	27.37	964.73	27.92
966.00	26.84	965.36	27.39	964.72	27.93
965.98	26.85	965.35	27.40	964.71	27.94
965.97	26.87	965.33	27.41	964.69	27.95
965.95	26.88	965.32	27.42	964.68	27.97
965.94	26.89	965.31	27.43	964.66	27.98
965.93	26.90	965.29	27.45	964.65	27.99
965.91	26.91	965.28	27.46	964.64	28.00
965.90	26.92	965.26	27.47	964.62	28.01
965.89	26.94	965.25	27.48	964.61	28.03
965.87	26.95	965.24	27.49	964.59	28.04
965.86	26.96	965.22	27.51	964.58	28.05
965.84	26.97	965.21	27.52	964.57	28.06
965.83	26.98	965.19	27.53	964.55	28.07
965.82	27.00	965.18	27.54	964.54	28.08
965.80	27.01	965.17	27.55	964.52	28.10
965.79	27.02	965.15	27.56	964.51	28.11
965.78	27.03	965.14	27.58	964.49	28.12
965.76	27.04	965.12	27.59	964.48	28.13
965.75	27.06	965.11	27.60	964.47	28.14
965.73	27.07	965.10	27.61	964.45	28.16
965.72	27.08	965.08	27.62	964.44	28.17
965.71	27.09	965.07	27.64	964.42	28.18
965.69	27.10	965.05	27.65	964.41	28.19
965.68	27.11	965.04	27.66	964.40	28.20
965.67	27.13	965.03	27.67	964.38	28.21
965.65	27.14	965.01	27.68	964.37	28.23
965.64	27.15	965.00	27.69	964.35	28.24
965.62	27.16	964.99	27.71	964.34	28.25
965.61	27.17	964.97	27.72	964.33	28.26
965.60	27.19	964.96	27.73	964.31	28.27
965.58	27.20	964.94	27.74	964.30	28.29
965.57	27.21	964.93	27.75	964.28	28.30
965.55	27.22	964.92	27.77	964.27	28.31
965.54	27.23	964.90	27.78	964.26	28.32
965.53	27.24	964.89	27.79	964.24	28.33
965.51	27.26	964.87	27.80	964.23	28.34
965.50	27.27	964.86	27.81	964.21	28.36
965.49	27.28	964.85	27.82	964.20	28.37
965.47	27.29	964.83	27.84	964.18	28.38
965.46	27.30	964.82	27.85	964.17	28.39
965.44	27.32	964.80	27.86	964.16	28.40
965.43	27.33	964.79	27.87	964.14	28.41

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
964.13	28.43	963.47	28.97	962.81	29.51
964.11	28.44	963.46	28.98	962.80	29.52
964.10	28.45	963.45	28.99	962.78	29.53
964.09	28.46	963.43	29.00	962.77	29.55
964.07	28.47	963.42	29.02	962.76	29.56
964.06	28.49	963.40	29.03	962.74	29.57
964.04	28.50	963.39	29.04	962.73	29.58
964.03	28.51	963.37	29.05	962.71	29.59
964.01	28.52	963.36	29.06	962.70	29.60
964.00	28.53	963.35	29.08	962.68	29.62
963.99	28.54	963.33	29.09	962.67	29.63
963.97	28.56	963.32	29.10	962.65	29.64
963.96	28.57	963.30	29.11	962.64	29.65
963.94	28.58	963.29	29.12	962.63	29.66
963.93	28.59	963.27	29.13	962.61	29.67
963.92	28.60	963.26	29.15	962.60	29.69
963.90	28.62	963.25	29.16	962.58	29.70
963.89	28.63	963.23	29.17	962.57	29.71
963.87	28.64	963.22	29.18	962.55	29.72
963.86	28.65	963.20	29.19	962.54	29.73
963.84	28.66	963.19	29.20	962.52	29.75
963.83	28.67	963.17	29.22	962.51	29.76
963.82	28.69	963.16	29.23	962.49	29.77
963.80	28.70	963.14	29.24	962.48	29.78
963.79	28.71	963.13	29.25	962.47	29.79
963.77	28.72	963.12	29.26	962.45	29.80
963.76	28.73	963.10	29.28	962.44	29.82
963.75	28.75	963.09	29.29	962.42	29.83
963.73	28.76	963.07	29.30	962.41	29.84
963.72	28.77	963.06	29.31	962.39	29.85
963.70	28.78	963.04	29.32	962.38	29.86
963.69	28.79	963.03	29.33	962.36	29.87
963.67	28.80	963.02	29.35	962.35	29.89
963.66	28.82	963.00	29.36	962.34	29.90
963.65	28.83	962.99	29.37	962.32	29.91
963.63	28.84	962.97	29.38	962.31	29.92
963.62	28.85	962.96	29.39	962.29	29.93
963.60	28.86	962.94	29.40	962.28	29.95
963.59	28.87	962.93	29.42	962.26	29.96
963.57	28.89	962.91	29.43	962.25	29.97
963.56	28.90	962.90	29.44	962.23	29.98
963.55	28.91	962.89	29.45	962.22	29.99
963.53	28.92	962.87	29.46	962.20	30.00
963.52	28.93	962.86	29.48	962.19	30.02
963.50	28.95	962.84	29.49	962.17	30.03
963.49	28.96	962.83	29.50	962.16	30.04

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
962.15	30.05	961.47	30.59	960.79	31.13
962.13	30.06	961.46	30.60	960.77	31.14
962.12	30.07	961.44	30.61	960.76	31.15
962.10	30.09	961.43	30.62	960.74	31.16
962.09	30.10	961.41	30.64	960.73	31.17
962.07	30.11	961.40	30.65	960.71	31.19
962.06	30.12	961.38	30.66	960.70	31.20
962.04	30.13	961.37	30.67	960.68	31.21
962.03	30.14	961.35	30.68	960.67	31.22
962.01	30.16	961.34	30.70	960.65	31.23
962.00	30.17	961.32	30.71	960.64	31.24
961.98	30.18	961.31	30.72	960.62	31.26
961.97	30.19	961.29	30.73	960.61	31.27
961.96	30.20	961.28	30.74	960.59	31.28
961.94	30.21	961.26	30.75	960.58	31.29
961.93	30.23	961.25	30.77	960.56	31.30
961.91	30.24	961.23	30.78	960.55	31.31
961.90	30.25	961.22	30.79	960.53	31.33
961.88	30.26	961.20	30.80	960.52	31.34
961.87	30.27	961.19	30.81	960.50	31.35
961.85	30.29	961.17	30.82	960.49	31.36
961.84	30.30	961.16	30.84	960.47	31.37
961.82	30.31	961.14	30.85	960.46	31.39
961.81	30.32	961.13	30.86	960.44	31.40
961.79	30.33	961.11	30.87	960.43	31.41
961.78	30.34	961.10	30.88	960.41	31.42
961.76	30.36	961.08	30.89	960.40	31.43
961.75	30.37	961.07	30.91	960.38	31.44
961.74	30.38	961.05	30.92	960.37	31.46
961.72	30.39	961.04	30.93	960.35	31.47
961.71	30.40	961.03	30.94	960.34	31.48
961.69	30.41	961.01	30.95	960.32	31.49
961.68	30.43	961.00	30.96	960.31	31.50
961.66	30.44	960.98	30.98	960.29	31.51
961.65	30.45	960.97	30.99	960.28	31.53
961.63	30.46	960.95	31.00	960.26	31.54
961.62	30.47	960.94	31.01	960.25	31.55
961.60	30.48	960.92	31.02	960.23	31.56
961.59	30.50	960.91	31.03	960.22	31.57
961.57	30.51	960.89	31.05	960.20	31.58
961.56	30.52	960.88	31.06	960.19	31.60
961.54	30.53	960.86	31.07	960.17	31.61
961.53	30.54	960.85	31.08	960.16	31.62
961.51	30.55	960.83	31.09	960.14	31.63
961.50	30.57	960.82	31.10	960.13	31.64
961.48	30.58	960.80	31.12	960.11	31.65

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
960.10	31.67	959.40	32.20	958.69	32.74
960.08	31.68	959.38	32.21	958.67	32.75
960.07	31.69	959.37	32.22	958.66	32.76
960.05	31.70	959.35	32.24	958.64	32.77
960.03	31.71	959.34	32.25	958.63	32.78
960.02	31.72	959.32	32.26	958.61	32.79
960.00	31.74	959.30	32.27	958.60	32.81
959.99	31.75	959.29	32.28	958.58	32.82
959.97	31.76	959.27	32.29	958.56	32.83
959.96	31.77	959.26	32.31	958.55	32.84
959.94	31.78	959.24	32.32	958.53	32.85
959.93	31.79	959.23	32.33	958.52	32.86
959.91	31.81	959.21	32.34	958.50	32.88
959.90	31.82	959.20	32.35	958.49	32.89
959.88	31.83	959.18	32.36	958.47	32.90
959.87	31.84	959.17	32.38	958.46	32.91
959.85	31.85	959.15	32.39	958.44	32.92
959.84	31.86	959.14	32.40	958.43	32.93
959.82	31.88	959.12	32.41	958.41	32.95
959.81	31.89	959.11	32.42	958.39	32.96
959.79	31.90	959.09	32.43	958.38	32.97
959.78	31.91	959.07	32.45	958.36	32.98
959.76	31.92	959.06	32.46	958.35	32.99
959.75	31.93	959.04	32.47	958.33	33.00
959.73	31.95	959.03	32.48	958.32	33.02
959.72	31.96	959.01	32.49	958.30	33.03
959.70	31.97	959.00	32.50	958.29	33.04
959.69	31.98	958.98	32.52	958.27	33.05
959.67	31.99	958.97	32.53	958.25	33.06
959.66	32.00	958.95	32.54	958.24	33.07
959.64	32.01	958.94	32.55	958.22	33.08
959.63	32.03	958.92	32.56	958.21	33.10
959.61	32.04	958.90	32.57	958.19	33.11
959.59	32.05	958.89	32.59	958.18	33.12
959.58	32.06	958.87	32.60	958.16	33.13
959.56	32.07	958.86	32.61	958.14	33.14
959.55	32.08	958.84	32.62	958.13	33.15
959.53	32.10	958.83	32.63	958.11	33.17
959.52	32.11	958.81	32.64	958.10	33.18
959.50	32.12	958.80	32.65	958.08	33.19
959.49	32.13	958.78	32.67	958.07	33.20
959.47	32.14	958.77	32.68	958.05	33.21
959.46	32.15	958.75	32.69	958.04	33.22
959.44	32.17	958.74	32.70	958.02	33.24
959.43	32.18	958.72	32.71	958.00	33.25
959.41	32.19	958.70	32.72	957.99	33.26

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
957.97	33.27	957.25	33.80	956.52	34.33
957.96	33.28	957.23	33.81	956.50	34.35
957.94	33.29	957.22	33.83	956.48	34.36
957.93	33.31	957.20	33.84	956.47	34.37
957.91	33.32	957.19	33.85	956.45	34.38
957.89	33.33	957.17	33.86	956.44	34.39
957.88	33.34	957.15	33.87	956.42	34.40
957.86	33.35	957.14	33.88	956.40	34.42
957.85	33.36	957.12	33.90	956.39	34.43
957.83	33.37	957.11	33.91	956.37	34.44
957.82	33.39	957.09	33.92	956.36	34.45
957.80	33.40	957.07	33.93	956.34	34.46
957.78	33.41	957.06	33.94	956.32	34.47
957.77	33.42	957.04	33.95	956.31	34.48
957.75	33.43	957.03	33.96	956.29	34.50
957.74	33.44	957.01	33.98	956.27	34.51
957.72	33.46	956.99	33.99	956.26	34.52
957.71	33.47	956.98	34.00	956.24	34.53
957.69	33.48	956.96	34.01	956.23	34.54
957.67	33.49	956.95	34.02	956.21	34.55
957.66	33.50	956.93	34.03	956.19	34.57
957.64	33.51	956.92	34.05	956.18	34.58
957.63	33.53	956.90	34.06	956.16	34.59
957.61	33.54	956.88	34.07	956.15	34.60
957.60	33.55	956.87	34.08	956.13	34.61
957.58	33.56	956.85	34.09	956.11	34.62
957.56	33.57	956.84	34.10	956.10	34.63
957.55	33.58	956.82	34.12	956.08	34.65
957.53	33.59	956.80	34.13	956.07	34.66
957.52	33.61	956.79	34.14	956.05	34.67
957.50	33.62	956.77	34.15	956.03	34.68
957.49	33.63	956.76	34.16	956.02	34.69
957.47	33.64	956.74	34.17	956.00	34.70
957.45	33.65	956.72	34.18	955.98	34.72
957.44	33.66	956.71	34.20	955.97	34.73
957.42	33.68	956.69	34.21	955.95	34.74
957.41	33.69	956.68	34.22	955.94	34.75
957.39	33.70	956.66	34.23	955.92	34.76
957.38	33.71	956.64	34.24	955.90	34.77
957.36	33.72	956.63	34.25	955.89	34.78
957.34	33.73	956.61	34.27	955.87	34.80
957.33	33.75	956.60	34.28	955.86	34.81
957.31	33.76	956.58	34.29	955.84	34.82
957.30	33.77	956.56	34.30	955.82	34.83
957.28	33.78	956.55	34.31	955.81	34.84
957.26	33.79	956.53	34.32	955.79	34.85

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
955.77	34.87	955.02	35.39	954.26	35.92
955.76	34.88	955.01	35.41	954.25	35.93
955.74	34.89	954.99	35.42	954.23	35.95
955.73	34.90	954.97	35.43	954.21	35.96
955.71	34.91	954.96	35.44	954.20	35.97
955.69	34.92	954.94	35.45	954.18	35.98
955.68	34.93	954.93	35.46	954.16	35.99
955.66	34.95	954.91	35.47	954.15	36.00
955.64	34.96	954.89	35.49	954.13	36.01
955.63	34.97	954.88	35.50	954.11	36.03
955.61	34.98	954.86	35.51	954.10	36.04
955.60	34.99	954.84	35.52	954.08	36.05
955.58	35.00	954.83	35.53	954.07	36.06
955.56	35.01	954.81	35.54	954.05	36.07
955.55	35.03	954.79	35.56	954.03	36.08
955.53	35.04	954.78	35.57	954.02	36.09
955.51	35.05	954.76	35.58	954.00	36.11
955.50	35.06	954.74	35.59	953.98	36.12
955.48	35.07	954.73	35.60	953.97	36.13
955.47	35.08	954.71	35.61	953.95	36.14
955.45	35.10	954.69	35.62	953.93	36.15
955.43	35.11	954.68	35.64	953.92	36.16
955.42	35.12	954.66	35.65	953.90	36.17
955.40	35.13	954.65	35.66	953.88	36.19
955.38	35.14	954.63	35.67	953.86	36.20
955.37	35.15	954.61	35.68	953.85	36.21
955.35	35.16	954.60	35.69	953.83	36.22
955.33	35.18	954.58	35.70	953.81	36.23
955.32	35.19	954.56	35.72	953.80	36.24
955.30	35.20	954.55	35.73	953.78	36.25
955.29	35.21	954.53	35.74	953.76	36.27
955.27	35.22	954.51	35.75	953.75	36.28
955.25	35.23	954.50	35.76	953.73	36.29
955.24	35.24	954.48	35.77	953.71	36.30
955.22	35.26	954.46	35.78	953.70	36.31
955.20	35.27	954.45	35.80	953.68	36.32
955.19	35.28	954.43	35.81	953.66	36.33
955.17	35.29	954.41	35.82	953.65	36.35
955.15	35.30	954.40	35.83	953.63	36.36
955.14	35.31	954.38	35.84	953.61	36.37
955.12	35.33	954.36	35.85	953.60	36.38
955.11	35.34	954.35	35.87	953.58	36.39
955.09	35.35	954.33	35.88	953.56	36.40
955.07	35.36	954.31	35.89	953.55	36.41
955.06	35.37	954.30	35.90	953.53	36.43
955.04	35.38	954.28	35.91	953.51	36.44

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
953.50	36.45	952.72	36.97	951.93	37.50
953.48	36.46	952.70	36.99	951.92	37.51
953.46	36.47	952.69	37.00	951.90	37.52
953.45	36.48	952.67	37.01	951.88	37.53
953.43	36.49	952.65	37.02	951.87	37.54
953.41	36.51	952.64	37.03	951.85	37.56
953.40	36.52	952.62	37.04	951.83	37.57
953.38	36.53	952.60	37.05	951.81	37.58
953.36	36.54	952.58	37.07	951.80	37.59
953.35	36.55	952.57	37.08	951.78	37.60
953.33	36.56	952.55	37.09	951.76	37.61
953.31	36.58	952.53	37.10	951.75	37.62
953.29	36.59	952.52	37.11	951.73	37.64
953.28	36.60	952.50	37.12	951.71	37.65
953.26	36.61	952.48	37.13	951.69	37.66
953.25	36.62	952.46	37.15	951.68	37.67
953.23	36.63	952.45	37.16	951.66	37.68
953.21	36.64	952.43	37.17	951.64	37.69
953.19	36.66	952.41	37.18	951.62	37.70
953.18	36.67	952.40	37.19	951.61	37.72
953.16	36.68	952.38	37.20	951.59	37.73
953.14	36.69	952.36	37.21	951.57	37.74
953.13	36.70	952.35	37.23	951.56	37.75
953.11	36.71	952.33	37.24	951.54	37.76
953.09	36.72	952.31	37.25	951.52	37.77
953.08	36.74	952.29	37.26	951.50	37.78
953.06	36.75	952.28	37.27	951.49	37.79
953.04	36.76	952.26	37.28	951.47	37.81
953.02	36.77	952.24	37.29	951.45	37.82
953.01	36.78	952.23	37.31	951.43	37.83
952.99	36.79	952.21	37.32	951.42	37.84
952.97	36.80	952.19	37.33	951.40	37.85
952.96	36.81	952.17	37.34	951.38	37.86
952.94	36.83	952.16	37.35	951.37	37.87
952.92	36.84	952.14	37.36	951.35	37.89
952.91	36.85	952.12	37.37	951.33	37.90
952.89	36.86	952.11	37.39	951.31	37.91
952.87	36.87	952.09	37.40	951.30	37.92
952.86	36.88	952.07	37.41	951.28	37.93
952.84	36.89	952.05	37.42	951.26	37.94
952.82	36.91	952.04	37.43	951.24	37.95
952.80	36.92	952.02	37.44	951.23	37.97
952.79	36.93	952.00	37.45	951.21	37.98
952.77	36.94	951.99	37.46	951.19	37.99
952.75	36.95	951.97	37.48	951.18	38.00
952.74	36.96	951.95	37.49	951.16	38.01

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
951.14	38.02	950.34	38.54	949.53	39.06
951.12	38.03	950.32	38.56	949.51	39.08
951.11	38.04	950.30	38.57	949.49	39.09
951.09	38.06	950.29	38.58	949.47	39.10
951.07	38.07	950.27	38.59	949.46	39.11
951.05	38.08	950.25	38.60	949.44	39.12
951.04	38.09	950.23	38.61	949.42	39.13
951.02	38.10	950.21	38.62	949.40	39.14
951.00	38.11	950.20	38.63	949.38	39.15
950.98	38.12	950.18	38.65	949.37	39.17
950.97	38.14	950.16	38.66	949.35	39.18
950.95	38.15	950.14	38.67	949.33	39.19
950.93	38.16	950.13	38.68	949.31	39.20
950.91	38.17	950.11	38.69	949.30	39.21
950.90	38.18	950.09	38.70	949.28	39.22
950.88	38.19	950.07	38.71	949.26	39.23
950.86	38.20	950.06	38.73	949.24	39.25
950.84	38.22	950.04	38.74	949.22	39.26
950.83	38.23	950.02	38.75	949.21	39.27
950.81	38.24	950.00	38.76	949.19	39.28
950.79	38.25	949.99	38.77	949.17	39.29
950.78	38.26	949.97	38.78	949.15	39.30
950.76	38.27	949.95	38.79	949.14	39.31
950.74	38.28	949.93	38.80	949.12	39.32
950.72	38.29	949.92	38.82	949.10	39.34
950.71	38.31	949.90	38.83	949.08	39.35
950.69	38.32	949.88	38.84	949.06	39.36
950.67	38.33	949.86	38.85	949.05	39.37
950.65	38.34	949.84	38.86	949.03	39.38
950.64	38.35	949.83	38.87	949.01	39.39
950.62	38.36	949.81	38.88	948.99	39.40
950.60	38.37	949.79	38.89	948.97	39.41
950.58	38.39	949.77	38.91	948.96	39.43
950.57	38.40	949.76	38.92	948.94	39.44
950.55	38.41	949.74	38.93	948.92	39.45
950.53	38.42	949.72	38.94	948.90	39.46
950.51	38.43	949.70	38.95	948.89	39.47
950.50	38.44	949.69	38.96	948.87	39.48
950.48	38.45	949.67	38.97	948.85	39.49
950.46	38.46	949.65	38.99	948.83	39.50
950.44	38.48	949.63	39.00	948.81	39.52
950.43	38.49	949.62	39.01	948.80	39.53
950.41	38.50	949.60	39.02	948.78	39.54
950.39	38.51	949.58	39.03	948.76	39.55
950.37	38.52	949.56	39.04	948.74	39.56
950.36	38.53	949.54	39.05	948.72	39.57



表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
948.71	39.58	947.90	40.09	947.08	40.60
948.69	39.60	947.88	40.10	947.06	40.61
948.67	39.61	947.86	40.11	947.04	40.62
948.65	39.62	947.84	40.12	947.02	40.63
948.64	39.63	947.82	40.14	947.01	40.64
948.62	39.64	947.81	40.15	946.99	40.65
948.60	39.65	947.79	40.16	946.97	40.66
948.58	39.66	947.77	40.17	946.95	40.67
948.56	39.67	947.75	40.18	946.93	40.69
948.55	39.69	947.73	40.19	946.91	40.70
948.53	39.70	947.72	40.20	946.90	40.71
948.51	39.71	947.70	40.21	946.88	40.72
948.49	39.72	947.68	40.23	946.86	40.73
948.47	39.73	947.66	40.24	946.84	40.74
948.46	39.74	947.64	40.25	946.82	40.75
948.44	39.75	947.62	40.26	946.80	40.76
948.42	39.76	947.61	40.27	946.79	40.78
948.40	39.78	947.59	40.28	946.77	40.79
948.38	39.79	947.57	40.29	946.75	40.80
948.37	39.80	947.55	40.30	946.73	40.81
948.35	39.81	947.53	40.32	946.71	40.82
948.33	39.82	947.52	40.33	946.69	40.83
948.31	39.83	947.50	40.34	946.68	40.84
948.29	39.84	947.48	40.35	946.66	40.85
948.28	39.85	947.46	40.36	946.64	40.86
948.26	39.87	947.44	40.37	946.62	40.88
948.24	39.88	947.43	40.38	946.60	40.89
948.22	39.89	947.41	40.39	946.58	40.90
948.20	39.90	947.39	40.41	946.57	40.91
948.19	39.91	947.37	40.42	946.55	40.92
948.17	39.92	947.35	40.43	946.53	40.93
948.15	39.93	947.33	40.44	946.51	40.94
948.13	39.94	947.32	40.45	946.49	40.95
948.11	39.96	947.30	40.46	946.47	40.97
948.10	39.97	947.28	40.47	946.46	40.98
948.08	39.98	947.26	40.48	946.44	40.99
948.06	39.99	947.24	40.49	946.42	41.00
948.04	40.00	947.22	40.51	946.40	41.01
948.02	40.01	947.21	40.52	946.38	41.02
948.01	40.02	947.19	40.53	946.36	41.03
947.99	40.03	947.17	40.54	946.35	41.04
947.97	40.05	947.15	40.55	946.33	41.06
947.95	40.06	947.13	40.56	946.31	41.07
947.93	40.07	947.12	40.57	946.29	41.08
947.91	40.08	947.10	40.58	946.27	41.09

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
946.25	41.10	945.42	41.60	944.58	42.10
946.23	41.11	945.40	41.61	944.56	42.12
946.22	41.12	945.38	41.63	944.54	42.13
946.20	41.13	945.36	41.64	944.52	42.14
946.18	41.14	945.35	41.65	944.50	42.15
946.16	41.16	945.33	41.66	944.48	42.16
946.14	41.17	945.31	41.67	944.47	42.17
946.12	41.18	945.29	41.68	944.45	42.18
946.11	41.19	945.27	41.69	944.43	42.19
946.09	41.20	945.25	41.70	944.41	42.20
946.07	41.21	945.23	41.71	944.39	42.22
946.05	41.22	945.21	41.73	944.37	42.23
946.03	41.23	945.20	41.74	944.35	42.24
946.01	41.25	945.18	41.75	944.33	42.25
945.99	41.26	945.16	41.76	944.32	42.26
945.98	41.27	945.14	41.77	944.30	42.27
945.96	41.28	945.12	41.78	944.28	42.28
945.94	41.29	945.10	41.79	944.26	42.29
945.92	41.30	945.08	41.80	944.24	42.30
945.90	41.31	945.07	41.81	944.22	42.32
945.88	41.32	945.05	41.83	944.20	42.33
945.86	41.33	945.03	41.84	944.24	42.30
945.85	41.35	945.01	41.85	944.22	42.32
945.83	41.36	944.99	41.86	944.20	42.33
945.81	41.37	944.97	41.87	944.18	42.34
945.79	41.38	944.95	41.88	944.16	42.35
945.77	41.39	944.93	41.89	944.15	42.36
945.75	41.40	944.92	41.90	944.13	42.37
945.74	41.41	944.90	41.92	944.11	42.38
945.72	41.42	944.88	41.93	944.09	42.39
945.70	41.44	944.86	41.94	944.07	42.40
945.68	41.45	944.84	41.95	944.05	42.42
945.66	41.46	944.82	41.96	944.03	42.43
945.64	41.47	944.80	41.97	944.01	42.44
945.62	41.48	944.78	41.98	943.99	42.45
945.61	41.49	944.77	41.99	943.98	42.46
945.59	41.50	944.75	42.00	943.96	42.47
945.57	41.51	944.73	42.02	943.94	42.48
945.55	41.52	944.71	42.03	943.92	42.49
945.53	41.54	944.69	42.04	943.90	42.50
945.51	41.55	944.67	42.05	943.88	42.52
945.49	41.56	944.65	42.06	943.86	42.53
945.48	41.57	944.63	42.07	943.84	42.54
945.46	41.58	944.62	42.08	943.82	42.55
945.44	41.59	944.60	42.09	943.81	42.56

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
943.79	42.57	942.93	43.07	942.07	43.57
943.77	42.58	942.91	43.08	942.05	43.58
943.75	42.59	942.89	43.09	942.03	43.59
943.73	42.60	942.87	43.10	942.01	43.60
943.71	42.62	942.86	43.11	941.99	43.61
943.69	42.63	942.84	43.13	941.97	43.62
943.67	42.64	942.82	43.14	941.95	43.63
943.65	42.65	942.80	43.15	941.94	43.65
943.64	42.66	942.78	43.16	941.92	43.66
943.62	42.67	942.76	43.17	941.90	43.67
943.60	42.68	942.74	43.18	941.88	43.68
943.58	42.69	942.72	43.19	941.86	43.69
943.56	42.70	942.70	43.20	941.84	43.70
943.54	42.72	942.68	43.21	941.82	43.71
943.52	42.73	942.66	43.23	941.80	43.72
943.50	42.74	942.65	43.24	941.78	43.73
943.48	42.75	942.63	43.25	941.76	43.74
943.46	42.76	942.61	43.26	941.74	43.76
943.45	42.77	942.59	43.27	941.72	43.77
943.43	42.78	942.57	43.28	941.70	43.78
943.41	42.79	942.55	43.29	941.68	43.79
943.39	42.80	942.53	43.30	941.67	43.80
943.37	42.82	942.51	43.31	941.65	43.81
943.35	42.83	942.49	43.33	941.63	43.82
943.33	42.84	942.47	43.34	941.61	43.83
943.31	42.85	942.45	43.35	941.59	43.84
943.29	42.86	942.43	43.36	941.57	43.86
943.27	42.87	942.42	43.37	941.55	43.87
943.26	42.88	942.40	43.38	941.53	43.88
943.24	42.89	942.38	43.39	941.51	43.89
943.22	42.90	942.36	43.40	941.49	43.90
943.20	42.92	942.34	43.41	941.47	43.91
943.18	42.93	942.32	43.42	941.45	43.92
943.16	42.94	942.30	43.44	941.43	43.93
943.14	42.95	942.28	43.45	941.41	43.94
943.12	42.96	942.26	43.46	941.39	43.95
943.10	42.97	942.24	43.47	941.38	43.97
943.08	42.98	942.22	43.48	941.36	43.98
943.07	42.99	942.20	43.49	941.34	43.99
943.05	43.00	942.19	43.50	941.32	44.00
943.03	43.02	942.17	43.51	941.30	44.01
943.01	43.03	942.15	43.52	941.28	44.02
942.99	43.04	942.13	43.54	941.26	44.03
942.97	43.05	942.11	43.55	941.24	44.04
942.95	43.06	942.09	43.56	941.22	44.05

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
941.22	44.06	940.32	44.56	939.42	45.06
941.18	44.08	940.31	44.57	939.40	45.08
941.16	44.09	940.29	44.58	939.38	45.09
941.14	44.10	940.27	44.59	939.36	45.10
941.12	44.11	940.25	44.60	939.34	45.11
941.10	44.12	940.23	44.61	939.32	45.12
941.08	44.13	940.21	44.63	939.30	45.13
941.06	44.14	940.19	44.64	939.28	45.14
941.05	44.15	940.17	44.65	939.27	45.15
941.03	44.16	940.15	44.66	939.25	45.16
941.01	44.17	940.13	44.67	939.23	45.17
940.99	44.19	940.11	44.68	939.21	45.19
940.97	44.20	940.09	44.69	939.19	45.20
940.95	44.21	940.07	44.70	939.17	45.21
940.93	44.22	940.05	44.71	939.15	45.22
940.91	44.23	940.03	44.72	939.13	45.23
940.89	44.24	940.01	44.74	939.11	45.24
940.87	44.25	939.99	44.75	939.09	45.25
940.85	44.26	939.97	44.76	939.07	45.26
940.83	44.27	939.95	44.77	939.05	45.27
940.81	44.28	939.93	44.78	939.03	45.28
940.79	44.30	939.91	44.79	939.01	45.29
940.77	44.31	939.89	44.80	938.99	45.31
940.75	44.32	939.87	44.81	938.97	45.32
940.73	44.33	939.86	44.82	938.95	45.33
940.71	44.34	939.84	44.83	938.93	45.34
940.70	44.35	939.82	44.85	938.91	45.35
940.68	44.36	939.80	44.86	938.89	45.36
940.66	44.37	939.78	44.87	938.87	45.37
940.64	44.38	939.76	44.88	938.85	45.38
940.62	44.39	939.74	44.89	938.83	45.39
940.60	44.41	939.72	44.90	938.81	45.40
940.58	44.42	939.70	44.91	938.79	45.41
940.56	44.43	939.68	44.92	938.77	45.43
940.54	44.44	939.66	44.93	938.75	45.44
940.52	44.45	939.64	44.94	938.73	45.45
940.50	44.46	939.62	44.95	938.71	45.46
940.48	44.47	939.60	44.97	938.69	45.47
940.46	44.48	939.58	44.98	938.67	45.48
940.44	44.49	939.56	44.99	938.65	45.49
940.42	44.50	939.54	45.00	938.63	45.50
940.40	44.52	939.50	45.02	938.61	45.51
940.38	44.53	939.48	45.03	938.59	45.52
940.36	44.54	939.46	45.04	938.57	45.54
940.34	44.55	939.44	45.05	938.55	45.55

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
938.53	45.56	937.64	46.05	936.74	46.54
938.51	45.57	937.62	46.06	936.72	46.55
938.49	45.58	937.60	46.07	936.70	46.56
938.47	45.59	937.58	46.08	936.68	46.57
938.45	45.60	937.56	46.09	936.66	46.58
938.43	45.61	937.54	46.10	936.64	46.59
938.41	45.62	937.52	46.11	936.62	46.60
938.40	45.63	937.50	46.12	936.60	46.61
938.38	45.64	937.48	46.14	936.58	46.63
938.36	45.66	937.46	46.15	936.56	46.64
938.34	45.67	937.44	46.16	936.54	46.65
938.32	45.68	937.42	46.17	936.52	46.66
938.30	45.69	937.40	46.18	936.50	46.67
938.28	45.70	937.38	46.19	936.48	46.68
938.26	45.71	937.36	46.20	936.46	46.69
938.24	45.72	937.34	46.21	936.44	46.70
938.22	45.73	937.32	46.22	936.42	46.71
938.20	45.74	937.30	46.23	936.40	46.72
938.18	45.75	937.28	46.24	936.38	46.73
938.16	45.76	937.26	46.26	936.36	46.74
938.14	45.78	937.24	46.27	936.34	46.76
938.12	45.79	937.22	46.28	936.31	46.77
938.10	45.80	937.20	46.29	936.29	46.78
938.08	45.81	937.18	46.30	936.27	46.79
938.06	45.82	937.16	46.31	936.25	46.80
938.04	45.83	937.14	46.32	936.23	46.81
938.02	45.84	937.12	46.33	936.21	46.82
938.00	45.85	937.10	46.34	936.19	46.83
937.98	45.86	937.08	46.35	936.17	46.84
937.96	45.87	937.06	46.36	936.15	46.85
937.94	45.88	937.04	46.37	936.13	46.86
937.92	45.90	937.02	46.39	936.11	46.87
937.90	45.91	937.00	46.40	936.09	46.89
937.88	45.92	936.98	46.41	936.07	46.90
937.86	45.93	936.96	46.42	936.05	46.91
937.84	45.94	936.94	46.43	936.03	46.92
937.82	45.95	936.92	46.44	936.01	46.93
937.80	45.96	936.90	46.45	935.99	46.94
937.78	45.97	936.88	46.46	935.97	46.95
937.76	45.98	936.86	46.47	935.95	46.96
937.74	45.99	936.84	46.48	935.93	46.97
937.72	46.00	936.82	46.49	935.91	46.98
937.70	46.02	936.80	46.51	935.89	46.99
937.68	46.03	936.78	46.52	935.87	47.00
937.66	46.04	936.76	46.53	935.85	47.02

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
935.83	47.03	934.92	47.51	934.00	48.00
935.81	47.04	934.90	47.52	933.98	48.01
935.79	47.05	934.88	47.54	933.96	48.02
935.77	47.06	934.86	47.55	933.94	48.03
935.75	47.07	934.84	47.56	933.92	48.04
935.73	47.08	934.82	47.57	933.90	48.05
935.71	47.09	934.80	47.58	933.88	48.06
935.69	47.10	934.78	47.59	933.86	48.08
935.67	47.11	934.75	47.60	933.84	48.09
935.65	47.12	934.73	47.61	933.82	48.10
935.63	47.13	934.71	47.62	933.79	48.11
935.61	47.15	934.69	47.63	933.77	48.12
935.59	47.16	934.67	47.64	933.75	48.13
935.57	47.17	934.65	47.65	933.73	48.14
935.55	47.18	934.63	47.67	933.71	48.15
935.53	47.19	934.61	47.68	933.69	48.16
935.51	47.20	934.59	47.69	933.67	48.17
935.49	47.21	934.57	47.70	933.65	48.18
935.47	47.22	934.55	47.71	933.63	48.19
935.45	47.23	934.53	47.72	933.61	48.20
935.43	47.24	934.51	47.73	933.59	48.22
935.41	47.25	934.49	47.74	933.57	48.23
935.39	47.26	934.47	47.75	933.55	48.24
935.36	47.28	934.45	47.76	933.53	48.25
935.34	47.29	934.43	47.77	933.51	48.26
935.32	47.30	934.41	47.78	933.49	48.27
935.30	47.31	934.39	47.79	933.47	48.28
935.28	47.32	934.37	47.81	933.45	48.29
935.26	47.33	934.35	47.82	933.43	48.30
935.24	47.34	934.33	47.83	933.41	48.31
935.22	47.35	934.31	47.84	933.38	48.32
935.20	47.36	934.29	47.85	933.36	48.33
935.18	47.37	934.27	47.86	933.34	48.34
935.16	47.38	934.25	47.87	933.32	48.36
935.14	47.39	934.22	47.88	933.30	48.37
935.12	47.41	934.20	47.89	933.28	48.38
935.10	47.42	934.18	47.90	933.26	48.39
935.08	47.43	934.16	47.91	933.24	48.40
935.06	47.44	934.14	47.92	933.22	48.41
935.04	47.45	934.12	47.93	933.20	48.42
935.02	47.46	934.10	47.95	933.18	48.43
935.00	47.47	934.08	47.96	933.16	48.44
934.98	47.48	934.06	47.97	933.14	48.45
934.96	47.49	934.04	47.98	933.12	48.46
934.94	47.50	934.02	47.99	933.10	48.47

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
933.08	48.48	932.15	48.97	931.21	49.45
933.06	48.49	932.13	48.98	931.19	49.46
933.03	48.51	932.11	48.99	931.17	49.47
933.01	48.52	932.09	49.00	931.15	49.48
932.99	48.53	932.06	49.01	931.13	49.49
932.97	48.54	932.04	49.02	931.11	49.50
932.95	48.55	932.02	49.03	931.09	49.51
932.93	48.56	932.00	49.04	931.07	49.52
932.91	48.57	931.98	49.05	931.05	49.53
932.89	48.58	931.96	49.06	931.03	49.55
932.87	48.59	931.94	49.07	931.01	49.56
932.85	48.60	931.92	49.09	930.99	49.57
932.83	48.61	931.90	49.10	930.96	49.58
932.81	48.62	931.88	49.11	930.94	49.59
932.79	48.63	931.86	49.12	930.92	49.60
932.77	48.65	931.84	49.13	930.90	49.61
932.75	48.66	931.82	49.14	930.88	49.62
932.73	48.67	931.80	49.15	930.86	49.63
932.71	48.68	931.77	49.16	930.84	49.64
932.68	48.69	931.75	49.17	930.82	49.65
932.66	48.70	931.73	49.18	930.80	49.66
932.64	48.71	931.71	49.19	930.78	49.67
932.62	48.72	931.69	49.20	930.76	49.68
932.60	48.73	931.67	49.21	930.73	49.70
932.58	48.74	931.65	49.22	930.71	49.71
932.56	48.75	931.63	49.24	930.69	49.72
932.54	48.76	931.61	49.25	930.67	49.73
932.52	48.77	931.59	49.26	930.65	49.74
932.50	48.79	931.57	49.27	930.63	49.75
932.48	48.80	931.55	49.28	930.61	49.76
932.46	48.81	931.53	49.29	930.59	49.77
932.44	48.82	931.50	49.30	930.57	49.78
932.42	48.83	931.48	49.31	930.55	49.79
932.40	48.84	931.46	49.32	930.53	49.80
932.37	48.85	931.44	49.33	930.51	49.81
932.35	48.86	931.42	49.34	930.48	49.82
932.33	48.87	931.40	49.35	930.46	49.83
932.31	48.88	931.38	49.36	930.44	49.84
932.29	48.89	931.36	49.37	930.42	49.86
932.27	48.90	931.34	49.39	930.40	49.87
932.25	48.91	931.32	49.40	930.38	49.88
932.23	48.92	931.30	49.41	930.36	49.89
932.21	48.94	931.28	49.42	930.34	49.90
932.19	48.95	931.26	49.43	930.32	49.91
932.17	48.96	931.23	49.44	930.30	49.92

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
930.28	49.93	929.33	50.41	928.39	50.89
930.25	49.94	929.31	50.42	928.36	50.90
930.23	49.95	929.29	50.43	928.34	50.91
930.21	49.96	929.27	50.44	928.32	50.92
930.19	49.97	929.25	50.45	928.30	50.93
930.17	49.98	929.23	50.46	928.28	50.94
930.15	49.99	929.21	50.47	928.26	50.95
930.13	50.00	929.19	50.48	928.24	50.96
930.11	50.02	929.16	50.49	928.22	50.97
930.09	50.03	929.14	50.50	928.20	50.98
930.07	50.04	929.12	50.52	928.17	50.99
930.05	50.05	929.10	50.53	928.15	51.00
930.02	50.06	929.08	50.54	928.13	51.01
930.00	50.07	929.06	50.55	928.11	51.03
929.98	50.08	929.04	50.56	928.09	51.04
929.96	50.09	929.02	50.57	928.07	51.05
929.94	50.10	929.00	50.58	928.05	51.06
929.92	50.11	928.98	50.59	928.03	51.07
929.90	50.12	928.95	50.60	928.01	51.08
929.88	50.13	928.93	50.61	927.98	51.09
929.86	50.14	928.91	50.62	927.96	51.10
929.84	50.15	928.89	50.63	927.94	51.11
929.82	50.16	928.87	50.64	927.92	51.12
929.79	50.18	928.85	50.65	927.90	51.13
929.77	50.19	928.83	50.66	927.88	51.14
929.75	50.20	928.81	50.67	927.86	51.15
929.73	50.21	928.79	50.69	927.84	51.16
929.71	50.22	928.76	50.70	927.81	51.17
929.69	50.23	928.74	50.71	927.79	51.18
929.67	50.24	928.72	50.72	927.77	51.19
929.65	50.25	928.70	50.73	927.75	51.21
929.63	50.26	928.68	50.74	927.73	51.22
929.61	50.27	928.66	50.75	927.71	51.23
929.58	50.28	928.64	50.76	927.69	51.24
929.56	50.29	928.62	50.77	927.67	51.25
929.54	50.30	928.60	50.78	927.65	51.26
929.52	50.31	928.58	50.79	927.62	51.27
929.50	50.32	928.55	50.80	927.60	51.28
929.48	50.33	928.53	50.81	927.58	51.29
929.46	50.35	928.51	50.82	927.56	51.30
929.44	50.36	928.49	50.83	927.54	51.31
929.42	50.37	928.47	50.84	927.52	51.32
929.40	50.38	928.45	50.86	927.50	51.33
929.37	50.39	928.43	50.87	927.48	51.34
929.35	50.40	928.41	50.88	927.45	51.35



表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
927.43	51.36	926.48	51.84	925.52	52.31
927.41	51.37	926.46	51.85	925.50	52.32
927.39	51.38	926.44	51.86	925.48	52.33
927.37	51.40	926.41	51.87	925.45	52.34
927.35	51.41	926.39	51.88	925.43	52.36
927.33	51.42	926.37	51.89	925.41	52.37
927.31	51.43	926.35	51.90	925.39	52.38
927.29	51.44	926.33	51.91	925.37	52.39
927.26	51.45	926.31	51.92	925.35	52.40
927.24	51.46	926.29	51.93	925.33	52.41
927.22	51.47	926.27	51.94	925.30	52.42
927.20	51.48	926.24	51.96	925.28	52.43
927.18	51.49	926.22	51.97	925.26	52.44
927.16	51.50	926.20	51.98	925.24	52.45
927.14	51.51	926.18	51.99	925.22	52.46
927.12	51.52	926.16	52.00	925.20	52.47
927.09	51.53	926.14	52.01	925.18	52.48
927.07	51.54	926.12	52.02	925.15	52.49
927.05	51.55	926.09	52.03	925.13	52.50
927.03	51.56	926.07	52.04	925.11	52.51
927.01	51.58	926.05	52.05	925.09	52.52
926.99	51.59	926.03	52.06	925.07	52.53
926.97	51.60	926.01	52.07	925.05	52.54
926.95	51.61	925.99	52.08	925.03	52.55
926.92	51.62	925.97	52.09	925.01	52.57
926.90	51.63	925.95	52.10	924.98	52.58
926.88	51.64	925.92	52.11	924.96	52.59
926.86	51.65	925.90	52.12	924.94	52.60
926.84	51.66	925.88	52.13	924.92	52.61
926.82	51.67	925.86	52.14	924.90	52.62
926.80	51.68	925.84	52.16	924.88	52.63
926.78	51.69	925.82	52.17	924.86	52.64
926.75	51.70	925.80	52.18	924.83	52.65
926.73	51.71	925.77	52.19	924.81	52.66
926.71	51.72	925.75	52.20	924.79	52.67
926.69	51.73	925.73	52.21	924.77	52.68
926.67	51.74	925.71	52.22	924.75	52.69
926.65	51.75	925.69	52.23	924.73	52.70
926.63	51.77	925.67	52.24	924.71	52.71
926.61	51.78	925.65	52.25	924.68	52.72
926.58	51.79	925.63	52.26	924.66	52.73
926.56	51.80	925.60	52.27	924.64	52.74
926.54	51.81	925.58	52.28	924.62	52.75
926.52	51.82	925.56	52.29	924.60	52.76
926.50	51.83	925.54	52.30	924.58	52.78

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
924.55	52.79	923.59	53.26	922.62	53.73
924.53	52.80	923.57	53.27	922.60	53.74
924.51	52.81	923.54	53.28	922.57	53.75
924.49	52.82	923.52	53.29	922.55	53.76
924.47	52.83	923.50	53.30	922.53	53.77
924.45	52.84	923.48	53.31	922.51	53.78
924.43	52.85	923.46	53.32	922.49	53.79
924.40	52.86	923.44	53.33	922.47	53.80
924.38	52.87	923.42	53.34	922.44	53.81
924.36	52.88	923.39	53.35	922.42	53.82
924.34	52.89	923.37	53.36	922.40	53.83
924.32	52.90	923.35	53.37	922.38	53.84
924.30	52.91	923.33	53.38	922.36	53.85
924.28	52.92	923.31	53.39	922.34	53.86
924.25	52.93	923.29	53.40	922.31	53.87
924.23	52.94	923.26	53.41	922.29	53.88
924.21	52.95	923.24	53.42	922.27	53.89
924.19	52.96	923.22	53.43	922.25	53.90
924.17	52.97	923.20	53.45	922.23	53.92
924.15	52.99	923.18	53.46	922.21	53.93
924.13	53.00	923.16	53.47	922.18	53.94
924.10	53.01	923.14	53.48	922.16	53.95
924.08	53.02	923.11	53.49	922.14	53.96
924.06	53.03	923.09	53.50	922.12	53.97
924.04	53.04	923.07	53.51	922.10	53.98
924.02	53.05	923.05	53.52	922.08	53.99
924.00	53.06	923.03	53.53	922.05	54.00
923.98	53.07	923.01	53.54	922.03	54.01
923.95	53.08	922.98	53.55	922.01	54.02
923.93	53.09	922.96	53.56	921.99	54.03
923.91	53.10	922.94	53.57	921.97	54.04
923.89	53.11	922.92	53.58	921.95	54.05
923.87	53.12	922.90	53.59	921.93	54.06
923.85	53.13	922.88	53.60	921.90	54.07
923.82	53.14	922.85	53.61	921.88	54.08
923.80	53.15	922.83	53.62	921.86	54.09
923.78	53.16	922.81	53.63	921.84	54.10
923.76	53.17	922.79	53.64	921.82	54.11
923.74	53.18	922.77	53.65	921.80	54.12
923.72	53.19	922.75	53.66	921.77	54.13
923.70	53.20	922.73	53.68	921.75	54.14
923.67	53.22	922.70	53.69	921.73	54.15
923.65	53.23	922.68	53.70	921.71	54.16
923.63	53.24	922.66	53.71	921.69	54.18
923.61	53.25	922.64	53.72	921.66	54.19

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
921.64	54.20	920.67	54.66	919.69	55.13
921.62	54.21	920.64	54.67	919.66	55.14
921.60	54.22	920.62	54.68	919.64	55.15
921.58	54.23	920.60	54.69	919.62	55.16
921.56	54.24	920.58	54.71	919.60	55.17
921.53	54.25	920.56	54.72	919.58	55.18
921.51	54.26	920.54	54.73	919.55	55.19
921.49	54.27	920.51	54.74	919.53	55.20
921.47	54.28	920.49	54.75	919.51	55.21
921.45	54.29	920.47	54.76	919.49	55.22
921.43	54.30	920.45	54.77	919.47	55.23
921.40	54.31	920.43	54.78	919.45	55.24
921.38	54.32	920.40	54.79	919.42	55.25
921.36	54.33	920.38	54.80	919.40	55.26
921.34	54.34	920.36	54.81	919.38	55.27
921.32	54.35	920.34	54.82	919.36	55.28
921.30	54.36	920.32	54.83	919.34	55.30
921.27	54.37	920.30	54.84	919.31	55.31
921.25	54.38	920.27	54.85	919.29	55.32
921.23	54.39	920.25	54.86	919.27	55.33
921.21	54.40	920.23	54.87	919.25	55.34
921.19	54.41	920.21	54.88	919.23	55.35
921.17	54.42	920.19	54.89	919.21	55.36
921.14	54.44	920.17	54.90	919.18	55.37
921.12	54.45	920.14	54.91	919.16	55.38
921.10	54.46	920.12	54.92	919.14	55.39
921.08	54.47	920.10	54.93	919.12	55.40
921.06	54.48	920.08	54.94	919.10	55.41
921.04	54.49	920.06	54.95	919.07	55.42
921.01	54.50	920.03	54.96	919.05	55.43
920.99	54.51	920.01	54.97	919.03	55.44
920.97	54.52	919.99	54.98	919.01	55.45
920.95	54.53	919.97	55.00	918.99	55.46
920.93	54.54	919.95	55.01	918.96	55.47
920.91	54.55	919.93	55.02	918.94	55.48
920.88	54.56	919.90	55.03	918.92	55.49
920.86	54.57	919.88	55.04	918.90	55.50
920.84	54.58	919.86	55.05	918.88	55.51
920.82	54.59	919.84	55.06	918.86	55.52
920.80	54.60	919.82	55.07	918.83	55.53
920.77	54.61	919.79	55.08	918.81	55.54
920.75	54.62	919.77	55.09	918.79	55.55
920.73	54.63	919.75	55.10	918.77	55.56
920.71	54.64	919.73	55.11	918.75	55.57
920.69	54.65	919.71	55.12	918.72	55.58

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
918.70	55.59	917.72	56.06	916.73	56.52
918.68	55.60	917.69	56.07	916.71	56.53
918.66	55.62	917.67	56.08	916.68	56.54
918.64	55.63	917.65	56.09	916.66	56.55
918.61	55.64	917.63	56.10	916.64	56.56
918.59	55.65	917.61	56.11	916.62	56.57
918.57	55.66	917.58	56.12	916.60	56.58
918.55	55.67	917.56	56.13	916.57	56.59
918.53	55.68	917.54	56.14	916.55	56.60
918.51	55.69	917.52	56.15	916.53	56.61
918.48	55.70	917.50	56.16	916.51	56.62
918.46	55.71	917.47	56.17	916.49	56.63
918.44	55.72	917.45	56.18	916.46	56.64
918.42	55.73	917.43	56.19	916.44	56.65
918.40	55.74	917.41	56.20	916.42	56.66
918.37	55.75	917.39	56.21	916.40	56.67
918.35	55.76	917.36	56.22	916.37	56.68
918.33	55.77	917.34	56.23	916.35	56.69
918.31	55.78	917.32	56.24	916.33	56.71
918.29	55.79	917.30	56.25	916.31	56.72
918.26	55.80	917.28	56.26	916.29	56.73
918.24	55.81	917.26	56.27	916.26	56.74
918.22	55.82	917.23	56.28	916.24	56.75
918.20	55.83	917.21	56.29	916.22	56.76
918.18	55.84	917.19	56.30	916.20	56.77
918.15	55.85	917.17	56.32	916.18	56.78
918.13	55.86	917.15	56.33	916.15	56.79
918.11	55.87	917.12	56.34	916.13	56.80
918.09	55.88	917.10	56.35	916.11	56.81
918.07	55.89	917.08	56.36	916.09	56.82
918.05	55.90	917.06	56.37	916.07	56.83
918.02	55.91	917.04	56.38	916.04	56.84
918.00	55.92	917.01	56.39	916.02	56.85
917.98	55.93	916.99	56.40	916.00	56.86
917.96	55.95	916.97	56.41	915.98	56.87
917.94	55.96	916.95	56.42	915.96	56.88
917.91	55.97	916.93	56.43	915.93	56.89
917.89	55.98	916.90	56.44	915.91	56.90
917.87	55.99	916.88	56.45	915.89	56.91
917.85	56.00	916.86	56.46	915.87	56.92
917.83	56.01	916.84	56.47	915.85	56.93
917.80	56.02	916.82	56.48	915.82	56.94
917.78	56.03	916.79	56.49	915.80	56.95
917.76	56.04	916.77	56.50	915.78	56.96
917.74	56.05	916.75	56.51	915.76	56.97

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
915.74	56.98	914.74	57.44	913.74	57.90
915.71	56.99	914.72	57.45	913.72	57.91
915.69	57.00	914.70	57.46	913.70	57.92
915.67	57.01	914.67	57.47	913.68	57.93
915.65	57.02	914.65	57.48	913.66	57.94
915.63	57.03	914.63	57.49	913.63	57.95
915.60	57.04	914.61	57.50	913.61	57.96
915.58	57.05	914.59	57.51	913.59	57.97
915.56	57.06	914.56	57.52	913.57	57.98
915.54	57.07	914.54	57.53	913.54	57.99
915.51	57.08	914.52	57.54	913.52	58.00
915.49	57.09	914.50	57.55	913.50	58.01
915.47	57.10	914.48	57.56	913.48	58.02
915.45	57.11	914.45	57.57	913.46	58.03
915.43	57.12	914.43	57.58	913.43	58.04
915.40	57.13	914.41	57.59	913.41	58.05
915.38	57.15	914.39	57.60	913.39	58.06
915.36	57.16	914.37	57.61	913.37	58.07
915.34	57.17	914.34	57.62	913.35	58.08
915.32	57.18	914.32	57.63	913.32	58.09
915.29	57.19	914.30	57.65	913.30	58.10
915.27	57.20	914.28	57.66	913.28	58.11
915.25	57.21	914.25	57.67	913.26	58.12
915.23	57.22	914.23	57.68	913.23	58.13
915.21	57.23	914.21	57.69	913.21	58.14
915.18	57.24	914.19	57.70	913.19	58.15
915.16	57.25	914.17	57.71	913.17	58.16
915.14	57.26	914.14	57.72	913.15	58.17
915.12	57.27	914.12	57.73	913.12	58.18
915.10	57.28	914.10	57.74	913.10	58.19
915.07	57.29	914.08	57.75	913.08	58.20
915.05	57.30	914.05	57.76	913.06	58.21
915.03	57.31	914.03	57.77	913.03	58.22
915.01	57.32	914.01	57.78	913.01	58.23
914.98	57.33	913.99	57.79	912.99	58.25
914.96	57.34	913.97	57.80	912.97	58.26
914.94	57.35	913.94	57.81	912.95	58.27
914.92	57.36	913.92	57.82	912.92	58.28
914.90	57.37	913.90	57.83	912.90	58.29
914.87	57.38	913.88	57.84	912.88	58.30
914.85	57.39	913.86	57.85	912.86	58.31
914.83	57.40	913.83	57.86	912.83	58.32
914.81	57.41	913.81	57.87	912.81	58.33
914.79	57.42	913.79	57.88	912.79	58.34
914.76	57.43	913.77	57.89	912.77	58.35

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
912.75	58.36	911.74	58.81	910.74	59.27
912.72	58.37	911.72	58.82	910.72	59.28
912.70	58.38	911.70	58.83	910.70	59.29
912.68	58.39	911.68	58.84	910.67	59.30
912.66	58.40	911.65	58.85	910.65	59.31
912.63	58.41	911.63	58.86	910.63	59.32
912.61	58.42	911.61	58.87	910.61	59.33
912.59	58.43	911.59	58.88	910.58	59.34
912.57	58.44	911.57	58.89	910.56	59.35
912.55	58.45	911.54	58.90	910.54	59.36
912.52	58.46	911.52	58.91	910.52	59.37
912.50	58.47	911.50	58.92	910.49	59.38
912.48	58.48	911.48	58.93	910.47	59.39
912.46	58.49	911.45	58.94	910.45	59.40
912.43	58.50	911.43	58.95	910.43	59.41
912.41	58.51	911.41	58.96	910.41	59.42
912.39	58.52	911.39	58.97	910.38	59.43
912.37	58.53	911.36	58.98	910.36	59.44
912.35	58.54	911.34	58.99	910.34	59.45
912.32	58.55	911.32	59.00	910.32	59.46
912.30	58.56	911.30	59.01	910.29	59.47
912.28	58.57	911.28	59.02	910.27	59.48
912.26	58.58	911.25	59.03	910.25	59.49
912.23	58.59	911.23	59.04	910.23	59.50
912.21	58.60	911.21	59.06	910.20	59.51
912.19	58.61	911.19	59.07	910.18	59.52
912.17	58.62	911.16	59.08	910.16	59.53
912.14	58.63	911.14	59.09	910.14	59.54
912.12	58.64	911.12	59.10	910.11	59.55
912.10	58.65	911.10	59.11	910.09	59.56
912.08	58.66	911.07	59.12	910.07	59.57
912.06	58.67	911.05	59.13	910.05	59.58
912.03	58.68	911.03	59.14	910.02	59.59
912.01	58.69	911.01	59.15	910.00	59.60
911.99	58.70	910.99	59.16	909.98	59.61
911.97	58.71	910.96	59.17	909.96	59.62
911.94	58.72	910.94	59.18	909.94	59.63
911.92	58.73	910.92	59.19	909.91	59.64
911.90	58.74	910.90	59.20	909.89	59.65
911.88	58.75	910.87	59.21	909.87	59.66
911.86	58.76	910.85	59.22	909.85	59.67
911.83	58.77	910.83	59.23	909.82	59.68
911.81	58.78	910.81	59.24	909.80	59.69
911.79	58.79	910.78	59.25	909.78	59.70
911.77	58.80	910.76	59.26	909.76	59.71

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
909.73	59.72	908.73	60.17	907.72	60.62
909.71	59.73	908.70	60.18	907.69	60.63
909.69	59.74	908.68	60.19	907.67	60.64
909.67	59.75	908.66	60.20	907.65	60.65
909.64	59.76	908.64	60.21	907.63	60.66
909.62	59.77	908.61	60.22	907.60	60.67
909.60	59.78	908.59	60.23	907.58	60.68
909.58	59.79	908.57	60.24	907.56	60.69
909.56	59.80	908.55	60.25	907.54	60.70
909.53	59.81	908.52	60.26	907.51	60.71
909.51	59.82	908.50	60.27	907.49	60.72
909.49	59.83	908.48	60.28	907.47	60.73
909.47	59.84	908.46	60.29	907.45	60.74
909.44	59.85	908.43	60.30	907.42	60.75
909.42	59.86	908.41	60.31	907.40	60.76
909.40	59.87	908.39	60.32	907.38	60.77
909.38	59.88	908.37	60.33	907.36	60.78
909.35	59.89	908.34	60.34	907.33	60.79
909.33	59.90	908.32	60.35	907.31	60.80
909.31	59.91	908.30	60.36	907.29	60.81
909.29	59.92	908.28	60.37	907.27	60.82
909.26	59.93	908.25	60.38	907.24	60.83
909.24	59.94	908.23	60.39	907.22	60.84
909.22	59.95	908.21	60.40	907.20	60.85
909.20	59.96	908.19	60.41	907.18	60.86
909.17	59.97	908.17	60.42	907.15	60.87
909.15	59.98	908.14	60.43	907.13	60.88
909.13	59.99	908.12	60.44	907.11	60.89
909.11	60.00	908.10	60.45	907.09	60.90
909.08	60.01	908.08	60.46	907.06	60.91
909.06	60.02	908.05	60.47	907.04	60.92
909.04	60.03	908.03	60.48	907.02	60.93
909.02	60.04	908.01	60.49	907.00	60.94
909.00	60.05	907.99	60.50	906.97	60.95
908.97	60.06	907.96	60.51	906.95	60.96
908.95	60.07	907.94	60.52	906.93	60.97
908.93	60.08	907.92	60.53	906.91	60.98
908.91	60.09	907.90	60.54	906.88	60.99
908.88	60.10	907.87	60.55	906.86	61.00
908.86	60.11	907.85	60.56	906.84	61.01
908.84	60.12	907.83	60.57	906.82	61.02
908.82	60.13	907.81	60.58	906.79	61.03
908.79	60.14	907.78	60.59	906.77	61.04
908.77	60.15	907.76	60.60	906.75	61.05
908.75	60.16	907.74	60.61	906.73	61.06

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
906.70	61.07	905.69	61.52	904.67	61.97
906.68	61.08	905.67	61.53	904.65	61.98
906.66	61.09	905.64	61.54	904.63	61.99
906.64	61.10	905.62	61.55	904.61	62.00
906.61	61.11	905.60	61.56	904.58	62.01
906.59	61.12	905.58	61.57	904.56	62.02
906.57	61.13	905.55	61.58	904.54	62.03
906.55	61.14	905.53	61.59	904.52	62.04
906.52	61.15	905.51	61.60	904.49	62.05
906.50	61.16	905.49	61.61	904.47	62.06
906.48	61.17	905.46	61.62	904.45	62.07
906.46	61.18	905.44	61.63	904.42	62.08
906.43	61.19	905.42	61.64	904.40	62.09
906.41	61.20	905.40	61.65	904.38	62.10
906.39	61.21	905.37	61.66	904.36	62.11
906.37	61.22	905.35	61.67	904.33	62.12
906.34	61.23	905.33	61.68	904.31	62.13
906.32	61.24	905.31	61.69	904.29	62.14
906.30	61.25	905.28	61.70	904.27	62.15
906.28	61.26	905.26	61.71	904.24	62.16
906.25	61.27	905.24	61.72	904.22	62.17
906.23	61.28	905.22	61.73	904.20	62.18
906.21	61.29	905.19	61.74	904.18	62.19
906.19	61.30	905.17	61.75	904.15	62.20
906.16	61.31	905.15	61.76	904.13	62.20
906.14	61.32	905.13	61.77	904.11	62.21
906.12	61.33	905.10	61.78	904.09	62.22
906.10	61.34	905.08	61.79	904.06	62.23
906.07	61.35	905.06	61.80	904.04	62.24
906.05	61.36	905.03	61.81	904.02	62.25
906.03	61.37	905.01	61.82	903.99	62.26
906.01	61.38	904.99	61.83	903.97	62.27
905.98	61.39	904.97	61.84	903.95	62.28
905.96	61.40	904.94	61.85	903.93	62.29
905.94	61.41	904.92	61.86	903.90	62.30
905.92	61.42	904.90	61.87	903.88	62.31
905.89	61.43	904.88	61.88	903.86	62.32
905.87	61.44	904.85	61.89	903.84	62.33
905.85	61.45	904.83	61.90	903.81	62.34
905.82	61.46	904.81	61.91	903.79	62.35
905.80	61.47	904.79	61.92	903.77	62.36
905.78	61.48	904.76	61.93	903.75	62.37
905.76	61.49	904.74	61.94	903.72	62.38
905.73	61.50	904.72	61.95	903.70	62.39
905.71	61.51	904.70	61.96	903.68	62.40



表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
903.66	62.41	902.64	62.86	901.61	63.30
903.63	62.42	902.61	62.87	901.59	63.31
903.61	62.43	902.59	62.88	901.57	63.32
903.59	62.44	902.57	62.89	901.55	63.33
903.56	62.45	902.54	62.90	901.52	63.34
903.54	62.46	902.52	62.91	901.50	63.35
903.52	62.47	902.50	62.92	901.48	63.36
903.50	62.48	902.48	62.93	901.45	63.37
903.47	62.49	902.45	62.94	901.43	63.38
903.45	62.50	902.43	62.95	901.41	63.39
903.43	62.51	902.41	62.96	901.39	63.40
903.41	62.52	902.39	62.97	901.36	63.41
903.38	62.53	902.36	62.98	901.34	63.42
903.36	62.54	902.34	62.98	901.32	63.43
903.34	62.55	902.32	62.99	901.30	63.44
903.32	62.56	902.30	63.00	901.27	63.45
903.29	62.57	902.27	63.01	901.25	63.46
903.27	62.58	902.25	63.02	901.23	63.47
903.25	62.59	902.23	63.03	901.20	63.48
903.22	62.60	902.20	63.04	901.18	63.49
903.20	62.61	902.18	63.05	901.16	63.50
903.18	62.62	902.16	63.06	901.14	63.51
903.16	62.63	902.14	63.07	901.11	63.52
903.13	62.64	902.11	63.08	901.09	63.53
903.11	62.65	902.09	63.09	901.07	63.54
903.09	62.66	902.07	63.10	901.05	63.55
903.07	62.67	902.05	63.11	901.02	63.56
903.04	62.68	902.02	63.12	901.00	63.56
903.02	62.69	902.00	63.13	900.98	63.57
903.00	62.70	901.98	63.14	900.95	63.58
902.98	62.71	901.95	63.15	900.93	63.59
902.95	62.72	901.93	63.16	900.91	63.60
902.93	62.73	901.91	63.17	900.89	63.61
902.91	62.74	901.89	63.18	900.86	63.62
902.88	62.75	901.86	63.19	900.84	63.63
902.86	62.76	901.84	63.20	900.82	63.64
902.84	62.77	901.82	63.21	900.80	63.65
902.82	62.78	901.80	63.22	900.77	63.66
902.79	62.79	901.77	63.23	900.75	63.67
902.77	62.80	901.75	63.24	900.73	63.68
902.75	62.81	901.73	63.25	900.70	63.69
902.73	62.82	901.70	63.26	900.68	63.70
902.70	62.83	901.68	63.27	900.66	63.71
902.68	62.84	901.66	63.28	900.64	63.72
902.66	62.85	901.64	63.29	900.61	63.73

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
900.59	63.74	899.57	64.18	898.54	64.62
900.57	63.75	899.54	64.19	898.52	64.63
900.54	63.76	899.52	64.20	898.49	64.64
900.52	63.77	899.50	64.21	898.47	64.65
900.50	63.78	899.47	64.22	898.45	64.66
900.48	63.79	899.45	64.23	898.42	64.67
900.45	63.80	899.43	64.24	898.40	64.68
900.43	63.81	899.41	64.25	898.38	64.69
900.41	63.82	899.38	64.26	898.36	64.70
900.39	63.83	899.36	64.27	898.33	64.71
900.36	63.84	899.34	64.28	898.31	64.72
900.34	63.85	899.31	64.29	898.29	64.73
900.32	63.86	899.29	64.30	898.26	64.74
900.29	63.87	899.27	64.31	898.24	64.75
900.27	63.88	899.25	64.32	898.22	64.76
900.25	63.89	899.22	64.33	898.20	64.77
900.23	63.90	899.20	64.34	898.17	64.78
900.20	63.91	899.18	64.35	898.15	64.79
900.18	63.92	899.15	64.36	898.13	64.80
900.16	63.93	899.13	64.37	898.10	64.81
900.13	63.94	899.11	64.38	898.08	64.82
900.11	63.95	899.09	64.39	898.06	64.83
900.09	63.96	899.06	64.40	898.04	64.84
900.07	63.97	899.04	64.41	898.01	64.84
900.04	63.98	899.02	64.42	897.99	64.85
900.02	63.99	898.99	64.43	897.97	64.86
900.00	64.00	898.97	64.44	897.94	64.87
899.98	64.01	898.95	64.45	897.92	64.88
899.95	64.02	898.93	64.46	897.90	64.89
899.93	64.03	898.90	64.46	897.88	64.90
899.91	64.04	898.88	64.47	897.85	64.91
899.88	64.04	898.86	64.48	897.83	64.92
899.86	64.05	898.83	64.49	897.81	64.93
899.84	64.06	898.81	64.50	897.78	64.94
899.82	64.07	898.79	64.51	897.76	64.95
899.79	64.08	898.77	64.52	897.74	64.96
899.77	64.09	898.74	64.53	897.72	64.97
899.75	64.10	898.72	64.54	897.69	64.98
899.72	64.11	898.70	64.55	897.67	64.99
899.70	64.12	898.68	64.56	897.65	65.00
899.68	64.13	898.65	64.57	897.62	65.01
899.66	64.14	898.63	64.58	897.60	65.02
899.63	64.15	898.61	64.59	897.58	65.03
899.61	64.16	898.58	64.60	897.56	65.04
899.59	64.17	898.56	64.61	897.53	65.05

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
897.51	65.06	896.48	65.50	895.45	65.93
897.49	65.07	896.46	65.50	895.42	65.94
897.46	65.08	896.43	65.51	895.40	65.95
897.44	65.09	896.41	65.52	895.38	65.96
897.42	65.10	896.39	65.53	895.35	65.97
897.39	65.11	896.36	65.54	895.33	65.98
897.37	65.12	896.34	65.55	895.31	65.99
897.35	65.13	896.32	65.56	895.29	66.00
897.33	65.14	896.30	65.57	895.26	66.01
897.30	65.15	896.27	65.58	895.24	66.02
897.28	65.16	896.25	65.59	895.22	66.03
897.26	65.17	896.23	65.60	895.19	66.04
897.23	65.18	896.20	65.61	895.17	66.05
897.21	65.18	896.18	65.62	895.15	66.06
897.19	65.19	896.16	65.63	895.13	66.07
897.17	65.20	896.14	65.64	895.10	66.07
897.14	65.21	896.11	65.65	895.08	66.08
897.12	65.22	896.09	65.66	895.06	66.09
897.10	65.23	896.07	65.67	895.03	66.10
897.07	65.24	896.04	65.68	895.01	66.11
897.05	65.25	896.02	65.69	894.99	66.12
897.03	65.26	896.00	65.70	894.96	66.13
897.01	65.27	895.97	65.71	894.94	66.14
896.98	65.28	895.95	65.72	894.92	66.15
896.96	65.29	895.93	65.73	894.90	66.16
896.94	65.30	895.91	65.74	894.87	66.17
896.91	65.31	895.88	65.75	894.85	66.18
896.89	65.32	895.86	65.76	894.83	66.19
896.87	65.33	895.84	65.77	894.80	66.20
896.85	65.34	895.81	65.78	894.78	66.21
896.82	65.35	895.79	65.79	894.76	66.22
896.80	65.36	895.77	65.79	894.73	66.23
896.78	65.37	895.75	65.80	894.71	66.24
896.75	65.38	895.72	65.81	894.69	66.25
896.73	65.39	895.70	65.82	894.67	66.26
896.71	65.40	895.68	65.83	894.64	66.27
896.69	65.41	895.65	65.84	894.62	66.28
896.66	65.42	895.63	65.85	894.60	66.29
896.64	65.43	895.61	65.86	894.57	66.30
896.62	65.44	895.58	65.87	894.55	66.31
896.59	65.45	895.56	65.88	894.53	66.32
896.57	65.46	895.54	65.89	894.50	66.33
896.55	65.47	895.52	65.90	894.48	66.34
896.52	65.48	895.49	65.91	894.46	66.34
896.50	65.49	895.47	65.92	894.44	66.35

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
894.41	66.36	893.38	66.80	892.34	67.23
894.39	66.37	893.35	66.81	892.32	67.24
894.37	66.38	893.33	66.82	892.29	67.25
894.34	66.39	893.31	66.83	892.27	67.26
894.32	66.40	893.29	66.83	892.25	67.27
894.30	66.41	893.26	66.84	892.23	67.28
894.27	66.42	893.24	66.85	892.20	67.29
894.25	66.43	893.22	66.86	892.18	67.29
894.23	66.44	893.19	66.87	892.16	67.30
894.21	66.45	893.17	66.88	892.13	67.31
894.18	66.46	893.15	66.89	892.11	67.32
894.16	66.47	893.12	66.90	892.09	67.33
894.14	66.48	893.10	66.91	892.06	67.34
894.11	66.49	893.08	66.92	892.04	67.35
894.09	66.50	893.06	66.93	892.02	67.36
894.07	66.51	893.03	66.94	891.99	67.37
894.04	66.52	893.01	66.95	891.97	67.38
894.02	66.53	892.99	66.96	891.95	67.39
894.00	66.54	892.96	66.97	891.93	67.40
893.98	66.55	892.94	66.98	891.90	67.41
893.95	66.56	892.92	66.99	891.88	67.42
893.93	66.57	892.89	67.00	891.86	67.43
893.91	66.58	892.87	67.01	891.83	67.44
893.88	66.59	892.85	67.02	891.81	67.45
893.86	66.59	892.82	67.03	891.79	67.46
893.84	66.60	892.80	67.04	891.76	67.47
893.81	66.61	892.78	67.05	891.74	67.48
893.79	66.62	892.76	67.06	891.72	67.49
893.77	66.63	892.73	67.07	891.69	67.50
893.75	66.64	892.71	67.07	891.67	67.51
893.72	66.65	892.69	67.08	891.65	67.51
893.70	66.66	892.66	67.09	891.63	67.52
893.68	66.67	892.64	67.10	891.60	67.53
893.65	66.68	892.62	67.11	891.58	67.54
893.63	66.69	892.59	67.12	891.56	67.55
893.61	66.70	892.57	67.13	891.53	67.56
893.58	66.71	892.55	67.14	891.51	67.57
893.56	66.72	892.52	67.15	891.49	67.58
893.54	66.73	892.50	67.16	891.46	67.59
893.52	66.74	892.48	67.17	891.44	67.60
893.49	66.75	892.46	67.18	891.42	67.61
893.47	66.76	892.43	67.19	891.39	67.62
893.45	66.77	892.41	67.20	891.37	67.63
893.42	66.78	892.39	67.21	891.35	67.64
893.40	66.79	892.36	67.22	891.32	67.65

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
891.30	67.66	890.26	68.09	889.22	68.51
891.28	67.67	890.24	68.10	889.20	68.52
891.26	67.68	890.22	68.11	889.17	68.53
891.23	67.69	890.19	68.11	889.15	68.54
891.21	67.70	890.17	68.12	889.13	68.55
891.19	67.71	890.15	68.13	889.10	68.56
891.16	67.72	890.12	68.14	889.08	68.57
891.14	67.72	890.10	68.15	889.06	68.58
891.12	67.73	890.08	68.16	889.03	68.59
891.09	67.74	890.05	68.17	889.01	68.60
891.07	67.75	890.03	68.18	888.99	68.61
891.05	67.76	890.01	68.19	888.96	68.62
891.02	67.77	889.98	68.20	888.94	68.63
891.00	67.78	889.96	68.21	888.92	68.64
890.98	67.79	889.94	68.22	888.89	68.65
890.96	67.80	889.91	68.23	888.87	68.66
890.93	67.81	889.89	68.24	888.85	68.67
890.91	67.82	889.87	68.25	888.83	68.67
890.89	67.83	889.84	68.26	888.80	68.68
890.86	67.84	889.82	68.27	888.78	68.69
890.84	67.85	889.80	68.28	888.76	68.70
890.82	67.86	889.78	68.29	888.73	68.71
890.79	67.87	889.75	68.30	888.71	68.72
890.77	67.88	889.73	68.30	888.69	68.73
890.75	67.89	889.71	68.31	888.66	68.74
890.72	67.90	889.68	68.32	888.64	68.75
890.70	67.91	889.66	68.33	888.62	68.76
890.68	67.92	889.64	68.34	888.59	68.77
890.65	67.92	889.61	68.35	888.57	68.78
890.63	67.93	889.59	68.36	888.55	68.79
890.61	67.94	889.57	68.37	888.52	68.80
890.59	67.95	889.54	68.38	888.50	68.81
890.56	67.96	889.52	68.39	888.48	68.82
890.54	67.97	889.50	68.40	888.45	68.83
890.52	67.98	889.47	68.41	888.43	68.84
890.49	67.99	889.45	68.42	888.41	68.85
890.47	68.00	889.43	68.43	888.38	68.85
890.45	68.01	889.40	68.44	888.36	68.86
890.42	68.02	889.38	68.45	888.34	68.87
890.40	68.03	889.36	68.46	888.32	68.88
890.38	68.04	889.34	68.47	888.29	68.89
890.35	68.05	889.31	68.48	888.27	68.90
890.33	68.06	889.29	68.49	888.25	68.91
890.31	68.07	889.27	68.49	888.22	68.92
890.28	68.08	889.24	68.50	888.20	68.93

表 A.1 (续)

密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol	密度 g/L	酒精度 % vol
888.18	68.94	887.29	69.30	886.41	69.66
888.15	68.95	887.27	69.31	886.39	69.67
888.13	68.96	887.25	69.32	886.36	69.68
888.11	68.97	887.22	69.33	886.34	69.68
888.08	68.98	887.20	69.34	886.32	69.69
888.06	68.99	887.18	69.35	886.29	69.70
888.04	69.00	887.15	69.36	886.27	69.71
888.01	69.01	887.13	69.36	886.25	69.72
887.99	69.02	887.11	69.37	886.22	69.73
887.97	69.02	887.08	69.38	886.20	69.74
887.94	69.03	887.06	69.39	886.18	69.75
887.92	69.04	887.04	69.40	886.15	69.76
887.90	69.05	887.01	69.41	886.13	69.77
887.87	69.06	886.99	69.42	886.11	69.78
887.85	69.07	886.99	69.43	886.08	69.79
887.83	69.08	886.94	69.44	886.06	69.80
887.80	69.09	886.92	69.45	886.04	69.81
887.78	69.10	886.90	69.46	886.01	69.82
887.76	69.11	886.87	69.47	885.99	69.83
887.73	69.12	886.85	69.48	885.97	69.83
887.71	69.13	886.83	69.49	885.94	69.84
887.69	69.14	886.81	69.50	885.92	69.85
887.67	69.15	886.78	69.51	885.90	69.86
887.64	69.16	886.76	69.52	885.87	69.87
887.62	69.17	886.74	69.52	885.85	69.88
887.60	69.18	886.71	69.53	885.83	69.89
887.57	69.19	886.69	69.54	885.80	69.90
887.55	69.19	886.67	69.55	885.78	69.91
887.53	69.20	886.64	69.56	885.76	69.92
887.50	69.21	886.62	69.57	885.73	69.93
887.48	69.22	886.60	69.58	885.71	69.94
887.46	69.23	886.57	69.59	885.69	69.95
887.43	69.24	886.55	69.60	885.66	69.96
887.41	69.25	886.53	69.61	885.64	69.97
887.39	69.26	886.50	69.62	885.62	69.98
887.36	69.27	886.48	69.63	885.60	69.98
887.34	69.28	886.46	69.64	885.57	69.99
887.32	69.29	886.43	69.65	885.55	70.00

## 附 录 B

## 酒精计温度与 20 ℃ 酒精度(乙醇含量)换算表

酒精计温度与 20 ℃ 酒精度(乙醇含量)换算表见表 B.1。

表 B.1 酒精计温度与 20 ℃ 酒精度(乙醇含量)换算表

酒精度 % vol	酒精计温度 ℃									酒精度 % vol
	10	11	12	13	14	15	16	17	18	
0.5	1.33	1.28	1.23	1.16	1.09	1.01	0.92	0.83	0.73	0.5
1	1.84	1.79	1.74	1.67	1.60	1.52	1.43	1.33	1.23	1
1.5	2.36	2.31	2.25	2.18	2.11	2.03	1.94	1.84	1.73	1.5
2	2.87	2.82	2.76	2.70	2.62	2.54	2.44	2.34	2.24	2
2.5	3.39	3.34	3.28	3.21	3.13	3.05	2.95	2.85	2.74	2.5
3	3.91	3.86	3.80	3.72	3.64	3.56	3.46	3.36	3.25	3
3.5	4.43	4.38	4.31	4.24	4.16	4.07	3.97	3.86	3.75	3.5
4	4.96	4.90	4.83	4.76	4.67	4.58	4.48	4.37	4.25	4
4.5	5.49	5.43	5.36	5.28	5.19	5.10	4.99	4.88	4.76	4.5
5	6.02	5.95	5.88	5.80	5.71	5.61	5.50	5.39	5.27	5
5.5	6.55	6.48	6.41	6.32	6.23	6.13	6.02	5.90	5.77	5.5
6	7.08	7.01	6.93	6.85	6.75	6.64	6.53	6.41	6.28	6
6.5	7.62	7.55	7.46	7.37	7.27	7.16	7.04	6.92	6.79	6.5
7	8.16	8.08	8.00	7.90	7.79	7.68	7.56	7.43	7.29	7
7.5	8.70	8.62	8.53	8.43	8.32	8.20	8.08	7.94	7.80	7.5
8	9.25	9.16	9.07	8.96	8.85	8.72	8.59	8.46	8.31	8
8.5	9.80	9.71	9.61	9.49	9.38	9.25	9.11	8.97	8.82	8.5
9	10.35	10.25	10.15	10.03	9.91	9.77	9.63	9.48	9.33	9
9.5	10.91	10.80	10.69	10.57	10.44	10.30	10.15	10.00	9.84	9.5
10	11.47	11.36	11.24	11.11	10.97	10.83	10.67	10.52	10.35	10
10.5	12.03	11.91	11.79	11.65	11.51	11.35	11.20	11.03	10.86	10.5
11	12.60	12.47	12.34	12.19	12.04	11.88	11.72	11.55	11.37	11
11.5	13.17	13.03	12.89	12.74	12.58	12.42	12.24	12.07	11.88	11.5
12	13.74	13.60	13.45	13.29	13.12	12.95	12.77	12.59	12.40	12
12.5	14.32	14.16	14.00	13.84	13.66	13.48	13.30	13.11	12.91	12.5
13	14.90	14.73	14.56	14.39	14.21	14.02	13.82	13.63	13.42	13
13.5	15.48	15.31	15.13	14.94	14.75	14.55	14.35	14.15	13.93	13.5
14	16.06	15.88	15.69	15.50	15.30	15.09	14.88	14.67	14.45	14
14.5	16.65	16.46	16.26	16.05	15.84	15.63	15.41	15.19	14.96	14.5
15	17.24	17.04	16.82	16.61	16.39	16.17	15.94	15.71	15.48	15
15.5	17.83	17.61	17.39	17.17	16.94	16.71	16.47	16.23	15.99	15.5
16	18.43	18.20	17.96	17.73	17.49	17.25	17.00	16.76	16.51	16
16.5	19.02	18.78	18.53	18.29	18.04	17.79	17.53	17.28	17.02	16.5
17	19.61	19.36	19.10	18.85	18.59	18.33	18.07	17.80	17.54	17
17.5	20.21	19.94	19.67	19.41	19.14	18.87	18.60	18.32	18.05	17.5

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃									酒精度 % vol
	19	20	21	22	23	24	25	26	27	
0.5	0.62	0.50	0.38	0.25	0.11					0.5
1	1.12	1.00	0.87	0.74	0.60	0.46	0.31	0.15		1
1.5	1.62	1.50	1.37	1.24	1.10	0.95	0.80	0.64	0.48	1.5
2	2.12	2.00	1.87	1.74	1.59	1.45	1.29	1.13	0.96	2
2.5	2.62	2.50	2.37	2.23	2.09	1.94	1.78	1.62	1.45	2.5
3	3.13	3.00	2.87	2.73	2.58	2.43	2.27	2.10	1.93	3
3.5	3.63	3.50	3.36	3.22	3.07	2.92	2.76	2.59	2.42	3.5
4	4.13	4.00	3.86	3.72	3.57	3.41	3.24	3.07	2.90	4
4.5	4.63	4.50	4.36	4.21	4.06	3.90	3.73	3.56	3.38	4.5
5	5.14	5.00	4.86	4.71	4.55	4.39	4.22	4.04	3.86	5
5.5	5.64	5.50	5.35	5.20	5.04	4.87	4.70	4.52	4.34	5.5
6	6.14	6.00	5.85	5.69	5.53	5.36	5.19	5.00	4.82	6
6.5	6.65	6.50	6.35	6.19	6.02	5.85	5.67	5.49	5.30	6.5
7	7.15	7.00	6.84	6.68	6.51	6.33	6.15	5.96	5.77	7
7.5	7.65	7.50	7.34	7.17	7.00	6.82	6.63	6.44	6.25	7.5
8	8.16	8.00	7.83	7.66	7.49	7.30	7.11	6.92	6.72	8
8.5	8.66	8.50	8.33	8.15	7.97	7.79	7.59	7.40	7.19	8.5
9	9.17	9.00	8.83	8.65	8.46	8.27	8.07	7.87	7.66	9
9.5	9.67	9.50	9.32	9.14	8.95	8.75	8.55	8.35	8.13	9.5
10	10.18	10.00	9.82	9.63	9.43	9.23	9.03	8.82	8.60	10
10.5	10.68	10.50	10.31	10.12	9.92	9.71	9.50	9.29	9.07	10.5
11	11.19	11.00	10.81	10.61	10.40	10.19	9.98	9.76	9.54	11
11.5	11.69	11.50	11.30	11.10	10.89	10.67	10.45	10.23	10.00	11.5
12	12.20	12.00	11.79	11.58	11.37	11.15	10.93	10.70	10.47	12
12.5	12.71	12.50	12.29	12.07	11.85	11.63	11.40	11.17	10.93	12.5
13	13.21	13.00	12.78	12.56	12.34	12.11	11.87	11.64	11.40	13
13.5	13.72	13.50	13.28	13.05	12.82	12.58	12.34	12.10	11.86	13.5
14	14.23	14.00	13.77	13.54	13.30	13.06	12.81	12.57	12.32	14
14.5	14.73	14.50	14.26	14.02	13.78	13.53	13.29	13.03	12.78	14.5
15	15.24	15.00	14.76	14.51	14.26	14.01	13.75	13.50	13.24	15
15.5	15.75	15.50	15.25	15.00	14.74	14.48	14.22	13.96	13.70	15.5
16	16.25	16.00	15.74	15.48	15.22	14.96	14.69	14.42	14.15	16
16.5	16.76	16.50	16.24	15.97	15.70	15.43	15.16	14.89	14.61	16.5
17	17.27	17.00	16.73	16.46	16.18	15.91	15.63	15.35	15.07	17
17.5	17.78	17.50	17.22	16.94	16.66	16.38	16.10	15.81	15.53	17.5



表 B.1 (续)

酒精度 % vol	酒精计温度 ℃								酒精度 % vol
	28	29	30	31	32	33	34	35	
0.5	—	—	—	—	—	—	—	—	0.5
1	—	—	—	—	—	—	—	—	1
1.5	0.31	0.14	—	—	—	—	—	—	1.5
2	0.79	0.62	0.43	0.25	0.06	—	—	—	2
2.5	1.28	1.10	0.91	0.72	0.53	0.33	0.13	—	2.5
3	1.76	1.58	1.39	1.20	1.00	0.80	0.60	0.39	3
3.5	2.24	2.05	1.86	1.67	1.47	1.27	1.06	0.85	3.5
4	2.72	2.53	2.34	2.14	1.94	1.73	1.52	1.31	4
4.5	3.20	3.01	2.81	2.61	2.41	2.20	1.98	1.77	4.5
5	3.67	3.48	3.28	3.08	2.87	2.66	2.45	2.22	5
5.5	4.15	3.96	3.76	3.55	3.34	3.13	2.91	2.68	5.5
6	4.63	4.43	4.23	4.02	3.80	3.59	3.36	3.14	6
6.5	5.10	4.90	4.69	4.48	4.27	4.05	3.82	3.59	6.5
7	5.57	5.37	5.16	4.95	4.73	4.51	4.28	4.04	7
7.5	6.04	5.84	5.63	5.41	5.19	4.96	4.73	4.50	7.5
8	6.52	6.31	6.09	5.87	5.65	5.42	5.18	4.95	8
8.5	6.98	6.77	6.55	6.33	6.10	5.87	5.64	5.40	8.5
9	7.45	7.24	7.02	6.79	6.56	6.32	6.09	5.84	9
9.5	7.92	7.70	7.48	7.25	7.01	6.78	6.53	6.29	9.5
10	8.38	8.16	7.93	7.70	7.47	7.22	6.98	6.73	10
10.5	8.85	8.62	8.39	8.16	7.92	7.67	7.42	7.17	10.5
11	9.31	9.08	8.85	8.61	8.36	8.12	7.87	7.61	11
11.5	9.77	9.54	9.30	9.06	8.81	8.56	8.31	8.05	11.5
12	10.23	10.00	9.75	9.51	9.26	9.00	8.75	8.49	12
12.5	10.69	10.45	10.20	9.95	9.70	9.44	9.19	8.92	12.5
13	11.15	10.90	10.65	10.40	10.14	9.88	9.62	9.36	13
13.5	11.61	11.36	11.10	10.85	10.59	10.32	10.06	9.79	13.5
14	12.07	11.81	11.55	11.29	11.03	10.76	10.49	10.22	14
14.5	12.52	12.26	12.00	11.73	11.46	11.19	10.92	10.65	14.5
15	12.98	12.71	12.44	12.17	11.90	11.63	11.35	11.07	15
15.5	13.43	13.16	12.89	12.61	12.34	12.06	11.78	11.50	15.5
16	13.88	13.61	13.33	13.05	12.78	12.49	12.21	11.92	16
16.5	14.34	14.06	13.78	13.49	13.21	12.93	12.64	12.35	16.5
17	14.79	14.50	14.22	13.93	13.65	13.36	13.07	12.77	17
17.5	15.24	14.95	14.66	14.37	14.08	13.79	13.49	13.20	17.5
18	15.69	15.40	15.11	14.81	14.51	14.22	13.92	13.62	18

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	
18	20.80	20.66	20.52	20.38	20.25	20.11	19.97	19.83	19.69	19.55	19.41	18
18.1	20.92	20.78	20.64	20.50	20.36	20.22	20.08	19.94	19.80	19.66	19.52	18.1
18.2	21.04	20.90	20.76	20.61	20.47	20.33	20.19	20.05	19.91	19.77	19.62	18.2
18.3	21.16	21.01	20.87	20.73	20.59	20.44	20.30	20.16	20.02	19.88	19.73	18.3
18.4	21.28	21.13	20.99	20.84	20.70	20.56	20.41	20.27	20.13	19.98	19.84	18.4
18.5	21.39	21.25	21.10	20.96	20.81	20.67	20.53	20.38	20.24	20.09	19.95	18.5
18.6	21.51	21.37	21.22	21.07	20.93	20.78	20.64	20.49	20.35	20.20	20.06	18.6
18.7	21.63	21.48	21.34	21.19	21.04	20.90	20.75	20.60	20.46	20.31	20.16	18.7
18.8	21.75	21.60	21.45	21.30	21.16	21.01	20.86	20.71	20.57	20.42	20.27	18.8
18.9	21.87	21.72	21.57	21.42	21.27	21.12	20.97	20.82	20.68	20.53	20.38	18.9
19	21.99	21.83	21.68	21.53	21.38	21.23	21.08	20.94	20.79	20.64	20.49	19
19.1	22.10	21.95	21.80	21.65	21.50	21.35	21.20	21.05	20.90	20.75	20.60	19.1
19.2	22.22	22.07	21.92	21.76	21.61	21.46	21.31	21.16	21.01	20.85	20.70	19.2
19.3	22.34	22.18	22.03	21.88	21.72	21.57	21.42	21.27	21.12	20.96	20.81	19.3
19.4	22.46	22.30	22.15	21.99	21.84	21.68	21.53	21.38	21.22	21.07	20.92	19.4
19.5	22.57	22.42	22.26	22.11	21.95	21.80	21.64	21.49	21.33	21.18	21.03	19.5
19.6	22.69	22.53	22.38	22.22	22.06	21.91	21.75	21.60	21.44	21.29	21.14	19.6
19.7	22.81	22.65	22.49	22.33	22.18	22.02	21.86	21.71	21.55	21.40	21.24	19.7
19.8	22.93	22.77	22.61	22.45	22.29	22.13	21.98	21.82	21.66	21.51	21.35	19.8
19.9	23.04	22.88	22.72	22.56	22.40	22.25	22.09	21.93	21.77	21.61	21.46	19.9
20	23.16	23.00	22.84	22.68	22.52	22.36	22.20	22.04	21.88	21.72	21.57	20
20.1	23.28	23.12	22.95	22.79	22.63	22.47	22.31	22.15	21.99	21.83	21.67	20.1
20.2	23.39	23.23	23.07	22.91	22.74	22.58	22.42	22.26	22.10	21.94	21.78	20.2
20.3	23.51	23.35	23.18	23.02	22.86	22.69	22.53	22.37	22.21	22.05	21.89	20.3
20.4	23.63	23.46	23.30	23.13	22.97	22.81	22.64	22.48	22.32	22.16	22.00	20.4
20.5	23.74	23.58	23.41	23.25	23.08	22.92	22.75	22.59	22.43	22.26	22.10	20.5
20.6	23.86	23.69	23.53	23.36	23.19	23.03	22.86	22.70	22.54	22.37	22.21	20.6
20.7	23.98	23.81	23.64	23.47	23.31	23.14	22.97	22.81	22.65	22.48	22.32	20.7
20.8	24.09	23.92	23.75	23.59	23.42	23.25	23.09	22.92	22.75	22.59	22.42	20.8
20.9	24.21	24.04	23.87	23.70	23.53	23.36	23.20	23.03	22.86	22.70	22.53	20.9
21	24.33	24.15	23.98	23.81	23.64	23.47	23.31	23.14	22.97	22.81	22.64	21
21.1	24.44	24.27	24.10	23.93	23.76	23.59	23.42	23.25	23.08	22.91	22.75	21.1
21.2	24.56	24.38	24.21	24.04	23.87	23.70	23.53	23.36	23.19	23.02	22.85	21.2
21.3	24.67	24.50	24.32	24.15	23.98	23.81	23.64	23.47	23.30	23.13	22.96	21.3
21.4	24.79	24.61	24.44	24.26	24.09	23.92	23.75	23.58	23.41	23.24	23.07	21.4
21.5	24.90	24.73	24.55	24.38	24.20	24.03	23.86	23.69	23.51	23.34	23.17	21.5
21.6	25.02	24.84	24.66	24.49	24.31	24.14	23.97	23.79	23.62	23.45	23.28	21.6
21.7	25.13	24.95	24.78	24.60	24.43	24.25	24.08	23.90	23.73	23.56	23.39	21.7
21.8	25.25	25.07	24.89	24.71	24.54	24.36	24.19	24.01	23.84	23.67	23.49	21.8
21.9	25.36	25.18	25.00	24.83	24.65	24.47	24.30	24.12	23.95	23.77	23.60	21.9
22	25.48	25.30	25.12	24.94	24.76	24.58	24.41	24.23	24.06	23.88	23.71	22
22.1	25.59	25.41	25.23	25.05	24.87	24.69	24.52	24.34	24.16	23.99	23.81	22.1
22.2	25.70	25.52	25.34	25.16	24.98	24.80	24.62	24.45	24.27	24.10	23.92	22.2
22.3	25.82	25.64	25.45	25.27	25.09	24.91	24.73	24.56	24.38	24.20	24.03	22.3
22.4	25.93	25.75	25.57	25.38	25.20	25.02	24.84	24.67	24.49	24.31	24.13	22.4
22.5	26.05	25.86	25.68	25.50	25.31	25.13	24.95	24.77	24.60	24.42	24.24	22.5
22.6	26.16	25.97	25.79	25.61	25.42	25.24	25.06	24.88	24.70	24.52	24.35	22.6
22.7	26.27	26.09	25.90	25.72	25.53	25.35	25.17	24.99	24.81	24.63	24.45	22.7
22.8	26.39	26.20	26.01	25.83	25.64	25.46	25.28	25.10	24.92	24.74	24.56	22.8
22.9	26.50	26.31	26.12	25.94	25.75	25.57	25.39	25.21	25.03	24.84	24.67	22.9
23	26.61	26.42	26.24	26.05	25.86	25.68	25.50	25.31	25.13	24.95	24.77	23
23.1	26.72	26.53	26.35	26.16	25.97	25.79	25.61	25.42	25.24	25.06	24.88	23.1
23.2	26.84	26.65	26.46	26.27	26.08	25.90	25.71	25.53	25.35	25.16	24.98	23.2
23.3	26.95	26.76	26.57	26.38	26.19	26.01	25.82	25.64	25.45	25.27	25.09	23.3
23.4	27.06	26.87	26.68	26.49	26.30	26.12	25.93	25.75	25.56	25.38	25.19	23.4
23.5	27.17	26.98	26.79	26.60	26.41	26.23	26.04	25.85	25.67	25.48	25.30	23.5
23.6	27.28	27.09	26.90	26.71	26.52	26.33	26.15	25.96	25.77	25.59	25.41	23.6
23.7	27.40	27.20	27.01	26.82	26.63	26.44	26.25	26.07	25.88	25.70	25.51	23.7
23.8	27.51	27.31	27.12	26.93	26.74	26.55	26.36	26.17	25.99	25.80	25.62	23.8
23.9	27.62	27.42	27.23	27.04	26.85	26.66	26.47	26.28	26.09	25.91	25.72	23.9
24	27.73	27.54	27.34	27.15	26.96	26.77	26.58	26.39	26.20	26.01	25.83	24
24.1	27.84	27.65	27.45	27.26	27.07	26.88	26.69	26.50	26.31	26.12	25.93	24.1
24.2	27.95	27.76	27.56	27.37	27.17	26.98	26.79	26.60	26.41	26.23	26.04	24.2
24.3	28.06	27.87	27.67	27.48	27.28	27.09	26.90	26.71	26.52	26.33	26.14	24.3
24.4	28.17	27.98	27.78	27.59	27.39	27.20	27.01	26.82	26.63	26.44	26.25	24.4
24.5	28.28	28.09	27.89	27.69	27.50	27.31	27.11	26.92	26.73	26.54	26.35	24.5
24.6	28.39	28.19	28.00	27.80	27.61	27.41	27.22	27.03	26.84	26.65	26.46	24.6
24.7	28.50	28.30	28.11	27.91	27.72	27.52	27.33	27.14	26.94	26.75	26.56	24.7
24.8	28.61	28.41	28.22	28.02	27.82	27.63	27.44	27.24	27.05	26.86	26.67	24.8
24.9	28.72	28.52	28.32	28.13	27.93	27.74	27.54	27.35	27.16	26.96	26.77	24.9
25	28.83	28.63	28.43	28.24	28.04	27.84	27.65	27.45	27.26	27.07	26.88	25

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	
25	28.83	28.63	28.43	28.24	28.04	27.84	27.65	27.45	27.26	27.07	26.88	25
25.1	28.94	28.74	28.54	28.34	28.15	27.95	27.75	27.56	27.37	27.17	26.98	25.1
25.2	29.05	28.85	28.65	28.45	28.25	28.06	27.86	27.67	27.47	27.28	27.09	25.2
25.3	29.16	28.96	28.76	28.56	28.36	28.16	27.97	27.77	27.58	27.38	27.19	25.3
25.4	29.27	29.07	28.86	28.67	28.47	28.27	28.07	27.88	27.68	27.49	27.30	25.4
25.5	29.37	29.17	28.97	28.77	28.57	28.38	28.18	27.98	27.79	27.59	27.40	25.5
25.6	29.48	29.28	29.08	28.88	28.68	28.48	28.29	28.09	27.89	27.70	27.50	25.6
25.7	29.59	29.39	29.19	28.99	28.79	28.59	28.39	28.19	28.00	27.80	27.61	25.7
25.8	29.70	29.50	29.29	29.09	28.89	28.70	28.50	28.30	28.10	27.91	27.71	25.8
25.9	29.81	29.60	29.40	29.20	29.00	28.80	28.60	28.41	28.21	28.01	27.82	25.9
26	29.91	29.71	29.51	29.31	29.11	28.91	28.71	28.51	28.31	28.12	27.92	26
26.1	30.02	29.82	29.62	29.41	29.21	29.01	28.81	28.62	28.42	28.22	28.03	26.1
26.2	30.13	29.93	29.72	29.52	29.32	29.12	28.92	28.72	28.52	28.33	28.13	26.2
26.3	30.24	30.03	29.83	29.63	29.43	29.22	29.02	28.83	28.63	28.43	28.23	26.3
26.4	30.34	30.14	29.94	29.73	29.53	29.33	29.13	28.93	28.73	28.53	28.34	26.4
26.5	30.45	30.25	30.04	29.84	29.64	29.44	29.23	29.03	28.84	28.64	28.44	26.5
26.6	30.56	30.35	30.15	29.94	29.74	29.53	29.34	29.14	28.94	28.74	28.54	26.6
26.7	30.66	30.46	30.25	30.05	29.85	29.65	29.44	29.24	29.04	28.85	28.65	26.7
26.8	30.77	30.57	30.36	30.16	29.95	29.75	29.55	29.35	29.15	28.95	28.75	26.8
26.9	30.88	30.67	30.47	30.26	30.06	29.86	29.65	29.45	29.25	29.05	28.85	26.9
27	30.98	30.78	30.57	30.37	30.16	29.96	29.76	29.56	29.36	29.16	28.96	27
27.1	31.09	30.88	30.68	30.47	30.27	30.07	29.86	29.66	29.46	29.26	29.06	27.1
27.2	31.20	30.99	30.78	30.58	30.37	30.17	29.97	29.77	29.56	29.36	29.16	27.2
27.3	31.30	31.09	30.89	30.68	30.48	30.27	30.07	29.87	29.67	29.47	29.27	27.3
27.4	31.41	31.20	30.99	30.79	30.58	30.38	30.18	29.97	29.77	29.57	29.37	27.4
27.5	31.51	31.30	31.10	30.89	30.69	30.48	30.28	30.08	29.87	29.67	29.47	27.5
27.6	31.62	31.41	31.20	31.00	30.79	30.59	30.38	30.18	29.98	29.78	29.58	27.6
27.7	31.72	31.51	31.31	31.10	30.90	30.69	30.49	30.28	30.08	29.88	29.68	27.7
27.8	31.83	31.62	31.41	31.21	31.00	30.80	30.59	30.39	30.19	29.98	29.78	27.8
27.9	31.93	31.72	31.52	31.31	31.10	30.90	30.69	30.49	30.29	30.09	29.88	27.9
28	32.04	31.83	31.62	31.41	31.21	31.00	30.80	30.59	30.39	30.19	29.99	28
28.1	32.14	31.93	31.73	31.52	31.31	31.11	30.90	30.70	30.49	30.29	30.09	28.1
28.2	32.25	32.04	31.83	31.62	31.42	31.21	31.01	30.80	30.60	30.39	30.19	28.2
28.3	32.35	32.14	31.93	31.73	31.52	31.31	31.11	30.90	30.70	30.50	30.29	28.3
28.4	32.45	32.25	32.04	31.83	31.62	31.42	31.21	31.01	30.80	30.60	30.40	28.4
28.5	32.56	32.35	32.14	31.93	31.73	31.52	31.31	31.11	30.91	30.70	30.50	28.5
28.6	32.66	32.45	32.24	32.04	31.83	31.62	31.42	31.21	31.01	30.80	30.60	28.6
28.7	32.77	32.56	32.35	32.14	31.93	31.73	31.52	31.32	31.11	30.91	30.70	28.7
28.8	32.87	32.66	32.45	32.24	32.04	31.83	31.62	31.42	31.21	31.01	30.81	28.8
28.9	32.97	32.76	32.55	32.35	32.14	31.93	31.73	31.52	31.32	31.11	30.91	28.9
29	33.08	32.87	32.66	32.45	32.24	32.04	31.83	31.62	31.42	31.21	31.01	29
29.1	33.18	32.97	32.76	32.55	32.35	32.14	31.93	31.73	31.52	31.32	31.11	29.1
29.2	33.28	33.07	32.86	32.66	32.45	32.24	32.03	31.83	31.62	31.42	31.21	29.2
29.3	33.39	33.18	32.97	32.76	32.55	32.34	32.14	31.93	31.73	31.52	31.32	29.3
29.4	33.49	33.28	33.07	32.86	32.65	32.45	32.24	32.03	31.83	31.62	31.42	29.4
29.5	33.59	33.38	33.17	32.96	32.76	32.55	32.34	32.14	31.93	31.72	31.52	29.5
29.6	33.69	33.48	33.27	33.07	32.86	32.65	32.44	32.24	32.03	31.83	31.62	29.6
29.7	33.80	33.59	33.38	33.17	32.96	32.75	32.55	32.34	32.13	31.93	31.72	29.7
29.8	33.90	33.69	33.48	33.27	33.06	32.86	32.65	32.44	32.24	32.03	31.82	29.8
29.9	34.00	33.79	33.58	33.37	33.16	32.96	32.75	32.54	32.34	32.13	31.93	29.9
30	34.10	33.89	33.68	33.48	33.27	33.06	32.85	32.65	32.44	32.23	32.03	30

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	
30	34.10	33.89	33.68	33.8	33.27	33.06	32.85	32.65	32.44	32.23	32.03	30
30.1	34.21	34.00	33.79	33.58	33.37	33.16	32.95	32.75	32.54	32.33	32.13	30.1
30.2	34.31	34.10	33.89	33.68	33.47	33.26	33.06	32.85	32.64	32.44	32.23	30.2
30.3	34.41	34.20	33.99	33.78	33.57	33.36	33.16	32.95	32.74	32.54	32.33	30.3
30.4	34.51	34.30	34.09	33.88	33.67	33.47	33.26	33.05	32.85	32.64	32.43	30.4
30.5	34.61	34.40	34.19	33.98	33.78	33.57	33.36	33.15	32.95	32.74	32.53	30.5
30.6	34.71	34.50	34.30	34.09	33.88	33.67	33.46	33.25	33.05	32.84	32.64	30.6
30.7	34.82	34.61	34.40	34.19	33.98	33.77	33.56	33.36	33.15	32.94	32.74	30.7
30.8	34.92	34.71	34.50	34.29	34.08	33.87	33.66	33.46	33.25	33.04	32.84	30.8
30.9	35.02	34.81	34.60	34.39	34.18	33.97	33.77	33.56	33.35	33.15	32.94	30.9
31	35.12	34.91	34.70	34.49	34.28	34.07	33.87	33.66	33.45	33.25	33.04	31
31.1	35.22	35.01	34.80	34.59	34.38	34.18	33.97	33.76	33.55	33.35	33.14	31.1
31.2	35.32	35.11	34.90	34.69	34.49	34.28	34.07	33.86	33.65	33.45	33.24	31.2
31.3	35.42	35.21	35.00	34.79	34.59	34.38	34.17	33.96	33.76	33.55	33.34	31.3
31.4	35.52	35.31	35.10	34.90	34.69	34.48	34.27	34.06	33.86	33.65	33.44	31.4
31.5	35.62	35.41	35.21	35.00	34.79	34.58	34.37	34.16	33.96	33.75	33.54	31.5
31.6	35.72	35.52	35.31	35.10	34.89	34.68	34.47	34.27	34.06	33.85	33.65	31.6
31.7	35.83	35.62	35.41	35.20	34.99	34.78	34.57	34.37	34.16	33.95	33.75	31.7
31.8	35.93	35.72	35.51	35.30	35.09	34.88	34.67	34.47	34.26	34.05	33.85	31.8
31.9	36.03	35.82	35.61	35.40	35.19	34.98	34.77	34.57	34.36	34.15	33.95	31.9
32	36.13	35.92	35.71	35.50	35.29	35.08	34.88	34.67	34.46	34.25	34.05	32
32.1	36.23	36.02	35.81	35.60	35.39	35.18	34.98	34.77	34.56	34.35	34.15	32.1
32.2	36.33	36.12	35.91	35.70	35.49	35.28	35.08	34.87	34.66	34.45	34.25	32.2
32.3	36.43	36.22	36.01	35.80	35.59	35.38	35.18	34.97	34.76	34.56	34.35	32.3
32.4	36.53	36.32	36.11	35.90	35.69	35.48	35.28	35.07	34.86	34.66	34.45	32.4
32.5	36.63	36.42	36.21	36.00	35.79	35.58	35.38	35.17	34.96	34.76	34.55	32.5
32.6	36.73	36.52	36.31	36.10	35.89	35.68	35.48	35.27	35.06	34.86	34.65	32.6
32.7	36.83	36.62	36.41	36.20	35.99	35.79	35.58	35.37	35.16	34.96	34.75	32.7
32.8	36.93	36.72	36.51	36.30	36.09	35.89	35.68	35.47	35.26	35.06	34.85	32.8
32.9	37.03	36.82	36.61	36.40	36.19	35.99	35.78	35.57	35.36	35.16	34.95	32.9
33	37.13	36.92	36.71	36.50	36.29	36.09	35.88	35.67	35.46	35.26	35.05	33
33.1	37.22	37.02	36.81	36.60	36.39	36.19	35.98	35.77	35.56	35.36	35.15	33.1
33.2	37.32	37.12	36.91	36.70	36.49	36.28	36.08	35.87	35.66	35.46	35.25	33.2
33.3	37.42	37.22	37.01	36.80	36.59	36.38	36.18	35.97	35.76	35.56	35.35	33.3
33.4	37.52	37.31	37.11	36.90	36.69	36.48	36.28	36.07	35.86	35.66	35.45	33.4
33.5	37.62	37.41	37.21	37.00	36.79	36.58	36.38	36.17	35.96	35.76	35.55	33.5
33.6	37.72	37.51	37.31	37.10	36.89	36.68	36.48	36.27	36.06	35.86	35.65	33.6
33.7	37.82	37.61	37.41	37.20	36.99	36.78	36.58	36.37	36.16	35.96	35.75	33.7
33.8	37.92	37.71	37.50	37.30	37.09	36.88	36.68	36.47	36.26	36.06	35.85	33.8
33.9	38.02	37.81	37.60	37.40	37.19	36.98	36.78	36.57	36.36	36.16	35.95	33.9
34	38.12	37.91	37.70	37.50	37.29	37.08	36.88	36.67	36.46	36.26	36.05	34
34.1	38.22	38.01	37.80	37.59	37.39	37.18	36.97	36.77	36.56	36.36	36.15	34.1
34.2	38.31	38.11	37.90	37.69	37.49	37.28	37.07	36.87	36.66	36.46	36.25	34.2
34.3	38.41	38.21	38.00	37.79	37.59	37.38	37.17	36.97	36.76	36.56	36.35	34.3
34.4	38.51	38.31	38.10	37.89	37.69	37.48	37.27	37.07	36.86	36.65	36.45	34.4
34.5	38.61	38.40	38.20	37.99	37.78	37.58	37.37	37.17	36.96	36.75	36.55	34.5
34.6	38.71	38.50	38.30	38.09	37.88	37.68	37.47	37.27	37.06	36.85	36.65	34.6
34.7	38.81	38.60	38.40	38.19	37.98	37.78	37.57	37.36	37.16	36.95	36.75	34.7
34.8	38.91	38.70	38.49	38.29	38.08	37.88	37.67	37.46	37.26	37.05	36.85	34.8
34.9	39.00	38.80	38.59	38.39	38.18	37.97	37.77	37.56	37.36	37.15	36.95	34.9
35	39.10	38.90	38.69	38.49	38.28	38.07	37.87	37.66	37.46	37.25	37.05	35

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	
35	39.10	38.90	38.69	38.43	38.28	38.07	37.87	37.66	37.46	37.25	37.05	35
35.1	39.20	39.00	38.79	38.58	38.38	38.17	37.97	37.76	37.56	37.35	37.15	35.1
35.2	39.30	39.09	38.89	38.68	38.48	38.27	38.07	37.86	37.66	37.45	37.25	35.2
35.3	39.40	39.19	38.99	38.78	38.58	38.37	38.17	37.96	37.76	37.55	37.34	35.3
35.4	39.50	39.29	39.09	38.88	38.67	38.47	38.26	38.06	37.85	37.65	37.44	35.4
35.5	39.59	39.39	39.18	38.98	38.77	38.57	38.36	38.16	37.95	37.75	37.54	35.5
35.6	39.69	39.49	39.28	39.08	38.87	38.67	38.46	38.26	38.05	37.85	37.64	35.6
35.7	39.79	39.59	39.38	39.18	38.97	38.77	38.56	38.36	38.15	37.95	37.74	35.7
35.8	39.89	39.68	39.48	39.27	39.07	38.86	38.66	38.46	38.25	38.05	37.84	35.8
35.9	39.99	39.78	39.58	39.37	39.17	38.96	38.76	38.55	38.35	38.15	37.94	35.9
36	40.08	39.88	39.68	39.47	39.27	39.06	38.86	38.65	38.45	38.24	38.04	36
36.1	40.18	39.98	39.77	39.57	39.37	39.16	38.96	38.75	38.55	38.34	38.14	36.1
36.2	40.28	40.08	39.87	39.67	39.46	39.26	39.06	38.85	38.65	38.44	38.24	36.2
36.3	40.38	40.17	39.97	39.77	39.56	39.36	39.15	38.95	38.75	38.54	38.34	36.3
36.4	40.48	40.27	40.07	39.86	39.66	39.46	39.25	39.05	38.84	38.64	38.44	36.4
36.5	40.57	40.37	40.17	39.96	39.76	39.56	39.35	39.15	38.94	38.74	38.54	36.5
36.6	40.67	40.47	40.26	40.06	39.86	39.65	39.45	39.25	39.04	38.84	38.64	36.6
36.7	40.77	40.57	40.36	40.16	39.96	39.75	39.55	39.35	39.14	38.94	38.73	36.7
36.8	40.87	40.66	40.46	40.26	40.05	39.85	39.65	39.44	39.24	39.04	38.83	36.8
36.9	40.96	40.76	40.56	40.36	40.15	39.95	39.75	39.54	39.34	39.14	38.93	36.9
37	41.06	40.86	40.66	40.45	40.25	40.05	39.84	39.64	39.44	39.23	39.03	37
37.1	41.16	40.96	40.75	40.55	40.35	40.15	39.94	39.74	39.54	39.33	39.13	37.1
37.2	41.26	41.05	40.85	40.65	40.45	40.24	40.04	39.84	39.64	39.43	39.23	37.2
37.3	41.35	41.15	40.95	40.75	40.54	40.34	40.14	39.94	39.73	39.53	39.33	37.3
37.4	41.45	41.25	41.05	40.85	40.64	40.44	40.24	40.04	39.83	39.63	39.43	37.4
37.5	41.55	41.35	41.15	40.94	40.74	40.54	40.34	40.13	39.93	39.73	39.53	37.5
37.6	41.65	41.45	41.24	41.04	40.84	40.64	40.44	40.23	40.03	39.83	39.63	37.6
37.7	41.74	41.54	41.34	41.14	40.94	40.74	40.53	40.33	40.13	39.93	39.72	37.7
37.8	41.84	41.64	41.44	41.24	41.04	40.83	40.63	40.43	40.23	40.03	39.82	37.8
37.9	41.94	41.74	41.54	41.34	41.13	40.93	40.73	40.53	40.33	40.12	39.92	37.9
38	42.04	41.84	41.63	41.43	41.23	41.03	40.83	40.63	40.43	40.22	40.02	38
38.1	42.13	41.93	41.73	41.53	41.33	41.13	40.93	40.73	40.52	40.32	40.12	38.1
38.2	42.23	42.03	41.83	41.63	41.43	41.23	41.03	40.82	40.62	40.42	40.22	38.2
38.3	42.33	42.13	41.93	41.73	41.53	41.32	41.12	40.92	40.72	40.52	40.32	38.3
38.4	42.43	42.23	42.02	41.82	41.62	41.42	41.22	41.02	40.82	40.62	40.42	38.4
38.5	42.52	42.32	42.12	41.92	41.72	41.52	41.32	41.12	40.92	40.72	40.52	38.5
38.6	42.62	42.42	42.22	42.02	41.82	41.62	41.42	41.22	41.02	40.82	40.61	38.6
38.7	42.72	42.52	42.32	42.12	41.92	41.72	41.52	41.32	41.11	40.91	40.71	38.7
38.8	42.81	42.61	42.41	42.21	42.01	41.81	41.61	41.41	41.21	41.01	40.81	38.8
38.9	42.91	42.71	42.51	42.31	42.11	41.91	41.71	41.51	41.31	41.11	40.91	38.9
39	43.01	42.81	42.61	42.41	42.21	42.01	41.81	41.61	41.41	41.21	41.01	39
39.1	43.11	42.91	42.71	42.51	42.31	42.11	41.91	41.71	41.51	41.31	41.11	39.1
39.2	43.20	43.00	42.80	42.61	42.41	42.21	42.01	41.81	41.61	41.41	41.21	39.2
39.3	43.30	43.10	42.90	42.70	42.50	42.30	42.11	41.91	41.71	41.51	41.31	39.3
39.4	43.40	43.20	43.00	42.80	42.60	42.40	42.20	42.00	41.80	41.60	41.40	39.4
39.5	43.49	43.30	43.10	42.90	42.70	42.50	42.30	42.10	41.90	41.70	41.50	39.5
39.6	43.59	43.39	43.19	43.00	42.80	42.60	42.40	42.20	42.00	41.80	41.60	39.6
39.7	43.69	43.49	43.29	43.09	42.89	42.70	42.50	42.30	42.10	41.90	41.70	39.7
39.8	43.78	43.59	43.39	43.19	42.99	42.79	42.60	42.40	42.20	42.00	41.80	39.8
39.9	43.88	43.68	43.49	43.29	43.09	42.89	42.69	42.49	42.30	42.10	41.90	39.9
40	43.98	43.78	43.58	43.39	43.19	42.99	42.79	42.59	42.39	42.20	42.00	40

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃										酒精度 % vol	
	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5		15
40	43.98	43.78	43.58	43.39	43.19	42.99	42.79	42.59	42.39	42.20	42.00	40
40.1	44.08	43.88	43.68	43.48	43.29	43.09	42.89	42.69	42.49	42.29	42.10	40.1
40.2	44.17	43.98	43.78	43.58	43.38	43.19	42.99	42.79	42.59	42.39	42.19	40.2
40.3	44.27	44.07	43.88	43.68	43.48	43.28	43.09	42.89	42.69	42.49	42.29	40.3
40.4	44.37	44.17	43.97	43.78	43.58	43.38	43.18	42.99	42.79	42.59	42.39	40.4
40.5	44.46	44.27	44.07	43.87	43.68	43.48	43.28	43.08	42.89	42.69	42.49	40.5
40.6	44.56	44.36	44.17	43.97	43.77	43.58	43.38	43.18	42.98	42.79	42.59	40.6
40.7	44.66	44.46	44.26	44.07	43.87	43.67	43.48	43.28	43.08	42.88	42.69	40.7
40.8	44.75	44.56	44.36	44.17	43.97	43.77	43.58	43.38	43.18	42.98	42.79	40.8
40.9	44.85	44.66	44.46	44.26	44.07	43.87	43.67	43.48	43.28	43.08	42.88	40.9
41	44.95	44.75	44.56	44.36	44.16	43.97	43.77	43.57	43.38	43.18	42.98	41
41.1	45.04	44.85	44.65	44.46	44.26	44.07	43.87	43.67	43.48	43.28	43.08	41.1
41.2	45.14	44.95	44.75	44.56	44.36	44.16	43.97	43.77	43.57	43.38	43.18	41.2
41.3	45.24	45.04	44.85	44.65	44.46	44.26	44.07	43.87	43.67	43.48	43.28	41.3
41.4	45.34	45.14	44.95	44.75	44.55	44.36	44.16	43.97	43.77	43.57	43.38	41.4
41.5	45.43	45.24	45.04	44.85	44.65	44.46	44.26	44.06	43.87	43.67	43.48	41.5
41.6	45.53	45.33	45.14	44.94	44.75	44.55	44.36	44.16	43.97	43.77	43.57	41.6
41.7	45.63	45.43	45.24	45.04	44.85	44.65	44.46	44.26	44.07	43.87	43.67	41.7
41.8	45.72	45.53	45.33	45.14	44.94	44.75	44.55	44.36	44.16	43.97	43.77	41.8
41.9	45.82	45.63	45.43	45.24	45.04	44.85	44.65	44.46	44.26	44.07	43.87	41.9
42	45.92	45.72	45.53	45.33	45.14	44.95	44.75	44.56	44.36	44.16	43.97	42
42.1	46.01	45.82	45.63	45.43	45.24	45.04	44.85	44.65	44.46	44.26	44.07	42.1
42.2	46.11	45.92	45.72	45.53	45.33	45.14	44.95	44.75	44.56	44.36	44.17	42.2
42.3	46.21	46.01	45.82	45.63	45.43	45.24	45.04	44.85	44.65	44.46	44.26	42.3
42.4	46.30	46.11	45.92	45.72	45.53	45.34	45.14	44.95	44.75	44.56	44.36	42.4
42.5	46.40	46.21	46.01	45.82	45.63	45.43	45.24	45.05	44.85	44.66	44.46	42.5
42.6	46.50	46.30	46.11	45.92	45.72	45.53	45.34	45.14	44.95	44.75	44.56	42.6
42.7	46.59	46.40	46.21	46.02	45.82	45.63	45.44	45.24	45.05	44.85	44.66	42.7
42.8	46.69	46.50	46.31	46.11	45.92	45.73	45.53	45.34	45.15	44.95	44.76	42.8
42.9	46.79	46.60	46.40	46.21	46.02	45.82	45.63	45.44	45.24	45.05	44.86	42.9
43	46.88	46.69	46.50	46.31	46.12	45.92	45.73	45.54	45.34	45.15	44.95	43
43.1	46.98	46.79	46.60	46.41	46.21	46.02	45.83	45.63	45.44	45.25	45.05	43.1
43.2	47.08	46.89	46.69	46.50	46.31	46.12	45.92	45.73	45.54	45.34	45.15	43.2
43.3	47.17	46.98	46.79	46.60	46.41	46.22	46.02	45.83	45.64	45.44	45.25	43.3
43.4	47.27	47.08	46.89	46.70	46.51	46.31	46.12	45.93	45.73	45.54	45.35	43.4
43.5	47.37	47.18	46.99	46.79	46.60	46.41	46.22	46.03	45.83	45.64	45.45	43.5
43.6	47.46	47.27	47.08	46.89	46.70	46.51	46.32	46.12	45.93	45.74	45.54	43.6
43.7	47.56	47.37	47.18	46.99	46.80	46.61	46.41	46.22	46.03	45.84	45.64	43.7
43.8	47.66	47.47	47.28	47.09	46.90	46.70	46.51	46.32	46.13	45.93	45.74	43.8
43.9	47.76	47.56	47.37	47.18	46.99	46.80	46.61	46.42	46.23	46.03	45.84	43.9
44	47.85	47.66	47.47	47.28	47.09	46.90	46.71	46.52	46.32	46.13	45.94	44
44.1	47.95	47.76	47.57	47.38	47.19	47.00	46.81	46.61	46.42	46.23	46.04	44.1
44.2	48.05	47.86	47.67	47.48	47.29	47.09	46.90	46.71	46.52	46.33	46.14	44.2
44.3	48.14	47.95	47.76	47.57	47.38	47.19	47.00	46.81	46.62	46.43	46.23	44.3
44.4	48.24	48.05	47.86	47.67	47.48	47.29	47.10	46.91	46.72	46.52	46.33	44.4
44.5	48.34	48.15	47.96	47.77	47.58	47.39	47.20	47.01	46.81	46.62	46.43	44.5
44.6	48.43	48.24	48.05	47.86	47.68	47.48	47.29	47.10	46.91	46.72	46.53	44.6
44.7	48.53	48.34	48.15	47.96	47.77	47.58	47.39	47.20	47.01	46.82	46.63	44.7
44.8	48.63	48.44	48.25	48.06	47.87	47.68	47.49	47.30	47.11	46.92	46.73	44.8
44.9	48.72	48.53	48.35	48.16	47.97	47.78	47.59	47.40	47.21	47.02	46.83	44.9
45	48.82	48.63	48.44	48.25	48.07	47.88	47.69	47.50	47.31	47.11	46.92	45

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃										酒精度 % vol	
	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5		15
45	48.82	48.63	48.44	48.25	48.07	47.88	47.69	47.50	47.31	47.11	46.92	45
45.1	48.92	48.73	48.54	48.35	48.16	47.97	47.78	47.59	47.40	47.21	47.02	45.1
45.2	49.01	48.83	48.64	48.45	48.26	48.07	47.88	47.69	47.50	47.31	47.12	45.2
45.3	49.11	48.92	48.73	48.55	48.36	48.17	47.98	47.79	47.60	47.41	47.22	45.3
45.4	49.21	49.02	48.83	48.64	48.46	48.27	48.08	47.89	47.70	47.51	47.32	45.4
45.5	49.30	49.12	48.93	48.74	48.55	48.36	48.18	47.99	47.80	47.61	47.42	45.5
45.6	49.40	49.21	49.03	48.84	48.65	48.46	48.27	48.08	47.89	47.70	47.51	45.6
45.7	49.50	49.31	49.12	48.94	48.75	48.56	48.37	48.18	47.99	47.80	47.61	45.7
45.8	49.59	49.41	49.22	49.03	48.85	48.66	48.47	48.28	48.09	47.90	47.71	45.8
45.9	49.69	49.51	49.32	49.13	48.94	48.75	48.57	48.38	48.19	48.00	47.81	45.9
46	49.79	49.60	49.42	49.23	49.04	48.85	48.66	48.48	48.29	48.10	47.91	46
46.1	49.89	49.70	49.51	49.33	49.14	48.95	48.76	48.57	48.39	48.20	48.01	46.1
46.2	49.98	49.80	49.61	49.42	49.24	49.05	48.86	48.67	48.48	48.29	48.11	46.2
46.3	50.08	49.89	49.71	49.52	49.33	49.15	48.96	48.77	48.58	48.39	48.20	46.3
46.4	50.18	49.99	49.80	49.62	49.43	49.24	49.06	48.87	48.68	48.49	48.30	46.4
46.5	50.27	50.09	49.90	49.71	49.53	49.34	49.15	48.97	48.78	48.59	48.40	46.5
46.6	50.37	50.18	50.00	49.81	49.63	49.44	49.25	49.06	48.88	48.69	48.50	46.6
46.7	50.47	50.28	50.10	49.91	49.72	49.54	49.35	49.16	48.97	48.79	48.60	46.7
46.8	50.56	50.38	50.19	50.01	49.82	49.63	49.45	49.26	49.07	48.88	48.70	46.8
46.9	50.66	50.48	50.29	50.10	49.92	49.73	49.55	49.36	49.17	48.98	48.80	46.9
47	50.76	50.57	50.39	50.20	50.02	49.83	49.64	49.46	49.27	49.08	48.89	47
47.1	50.85	50.67	50.48	50.30	50.11	49.93	49.74	49.55	49.37	49.18	48.99	47.1
47.2	50.95	50.77	50.58	50.40	50.21	50.03	49.84	49.65	49.47	49.28	49.09	47.2
47.3	51.05	50.86	50.68	50.49	50.31	50.12	49.94	49.75	49.56	49.38	49.19	47.3
47.4	51.15	50.96	50.78	50.59	50.41	50.22	50.03	49.85	49.66	49.48	49.29	47.4
47.5	51.24	51.06	50.87	50.69	50.50	50.32	50.13	49.95	49.76	49.57	49.39	47.5
47.6	51.34	51.16	50.97	50.79	50.60	50.42	50.23	50.04	49.86	49.67	49.49	47.6
47.7	51.44	51.25	51.07	50.88	50.70	50.51	50.33	50.14	49.96	49.77	49.58	47.7
47.8	51.53	51.35	51.17	50.98	50.80	50.61	50.43	50.24	50.06	49.87	49.68	47.8
47.9	51.63	51.45	51.26	51.08	50.89	50.71	50.52	50.34	50.15	49.97	49.78	47.9
48	51.73	51.54	51.36	51.18	50.99	50.81	50.62	50.44	50.25	50.07	49.88	48
48.1	51.82	51.64	51.46	51.27	51.09	50.91	50.72	50.54	50.35	50.16	49.98	48.1
48.2	51.92	51.74	51.56	51.37	51.19	51.00	50.82	50.63	50.45	50.26	50.08	48.2
48.3	52.02	51.84	51.65	51.47	51.29	51.10	50.92	50.73	50.55	50.36	50.17	48.3
48.4	52.12	51.93	51.75	51.57	51.38	51.20	51.01	50.83	50.64	50.46	50.27	48.4
48.5	52.21	52.03	51.85	51.66	51.48	51.30	51.11	50.93	50.74	50.56	50.37	48.5
48.6	52.31	52.13	51.94	51.76	51.58	51.39	51.21	51.03	50.84	50.66	50.47	48.6
48.7	52.41	52.22	52.04	51.86	51.68	51.49	51.31	51.12	50.94	50.75	50.57	48.7
48.8	52.50	52.32	52.14	51.96	51.77	51.59	51.41	51.22	51.04	50.85	50.67	48.8
48.9	52.60	52.42	52.24	52.05	51.87	51.69	51.50	51.32	51.14	50.95	50.77	48.9
49	52.70	52.52	52.33	52.15	51.97	51.79	51.60	51.42	51.23	51.05	50.87	49
49.1	52.80	52.61	52.43	52.25	52.07	51.88	51.70	51.52	51.33	51.15	50.96	49.1
49.2	52.89	52.71	52.53	52.35	52.16	51.98	51.80	51.61	51.43	51.25	51.06	49.2
49.3	52.99	52.81	52.63	52.44	52.26	52.08	51.90	51.71	51.53	51.35	51.16	49.3
49.4	53.09	52.91	52.72	52.54	52.36	52.18	51.99	51.81	51.63	51.44	51.26	49.4
49.5	53.18	53.00	52.82	52.64	52.46	52.28	52.09	51.91	51.73	51.54	51.36	49.5
49.6	53.28	53.10	52.92	52.74	52.56	52.37	52.19	52.01	51.82	51.64	51.46	49.6
49.7	53.38	53.20	53.02	52.84	52.65	52.47	52.29	52.11	51.92	51.74	51.56	49.7
49.8	53.48	53.29	53.11	52.93	52.75	52.57	52.39	52.20	52.02	51.84	51.65	49.8
49.9	53.57	53.39	53.21	53.03	52.85	52.67	52.48	52.30	52.12	51.94	51.75	49.9
50	53.67	53.49	53.31	53.13	52.95	52.76	52.58	52.40	52.22	52.03	51.85	50

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃										酒精度 % vol	
	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5		15
50	53.67	53.49	53.31	53.13	52.95	52.76	52.58	52.40	52.22	52.03	51.85	50
50.1	53.77	53.59	53.41	53.23	53.04	52.86	52.68	52.50	52.32	52.13	51.95	50.1
50.2	53.86	53.68	53.50	53.32	53.14	52.96	52.78	52.60	52.41	52.23	52.05	50.2
50.3	53.96	53.78	53.60	53.42	53.24	53.06	52.88	52.69	52.51	52.33	52.15	50.3
50.4	54.06	53.88	53.70	53.52	53.34	53.16	52.97	52.79	52.61	52.43	52.25	50.4
50.5	54.16	53.98	53.80	53.62	53.44	53.25	53.07	52.89	52.71	52.53	52.34	50.5
50.6	54.25	54.07	53.89	53.71	53.53	53.35	53.17	52.99	52.81	52.63	52.44	50.6
50.7	54.35	54.17	53.99	53.81	53.63	53.45	53.27	53.09	52.91	52.72	52.54	50.7
50.8	54.45	54.27	54.09	53.91	53.73	53.55	53.37	53.19	53.00	52.82	52.64	50.8
50.9	54.55	54.37	54.19	54.01	53.83	53.65	53.47	53.28	53.10	52.92	52.74	50.9
51	54.64	54.46	54.28	54.10	53.92	53.74	53.56	53.38	53.20	53.02	52.84	51
51.1	54.74	54.56	54.38	54.20	54.02	53.84	53.66	53.48	53.30	53.12	52.94	51.1
51.2	54.84	54.66	54.48	54.30	54.12	53.94	53.76	53.58	53.40	53.22	53.03	51.2
51.3	54.93	54.76	54.58	54.40	54.22	54.04	53.86	53.68	53.50	53.32	53.13	51.3
51.4	55.03	54.85	54.67	54.50	54.32	54.14	53.96	53.78	53.59	53.41	53.23	51.4
51.5	55.13	54.95	54.77	54.59	54.41	54.23	54.05	53.87	53.69	53.51	53.33	51.5
51.6	55.23	55.05	54.87	54.69	54.51	54.33	54.15	53.97	53.79	53.61	53.43	51.6
51.7	55.32	55.15	54.97	54.79	54.61	54.43	54.25	54.07	53.89	53.71	53.53	51.7
51.8	55.42	55.24	55.06	54.89	54.71	54.53	54.35	54.17	53.99	53.81	53.63	51.8
51.9	55.52	55.34	55.16	54.98	54.81	54.63	54.45	54.27	54.09	53.91	53.73	51.9
52	55.62	55.44	55.26	55.08	54.90	54.72	54.54	54.37	54.19	54.01	53.82	52
52.1	55.71	55.54	55.36	55.18	55.00	54.82	54.64	54.46	54.28	54.10	53.92	52.1
52.2	55.81	55.63	55.46	55.28	55.10	54.92	54.74	54.56	54.38	54.20	54.02	52.2
52.3	55.91	55.73	55.55	55.38	55.20	55.02	54.84	54.66	54.48	54.30	54.12	52.3
52.4	56.01	55.83	55.65	55.47	55.29	55.12	54.94	54.76	54.58	54.40	54.22	52.4
52.5	56.10	55.93	55.75	55.57	55.39	55.21	55.04	54.86	54.68	54.50	54.32	52.5
52.6	56.20	56.02	55.85	55.67	55.49	55.31	55.13	54.96	54.78	54.60	54.42	52.6
52.7	56.30	56.12	55.94	55.77	55.59	55.41	55.23	55.05	54.87	54.70	54.52	52.7
52.8	56.39	56.22	56.04	55.86	55.69	55.51	55.33	55.15	54.97	54.79	54.61	52.8
52.9	56.49	56.32	56.14	55.96	55.78	55.61	55.43	55.25	55.07	54.89	54.71	52.9
53	56.59	56.41	56.24	56.06	55.88	55.70	55.53	55.35	55.17	54.99	54.81	53
53.1	56.69	56.51	56.33	56.16	55.98	55.80	55.63	55.45	55.27	55.09	54.91	53.1
53.2	56.78	56.61	56.43	56.26	56.08	55.90	55.72	55.55	55.37	55.19	55.01	53.2
53.3	56.88	56.71	56.53	56.35	56.18	56.00	55.82	55.64	55.47	55.29	55.11	53.3
53.4	56.98	56.80	56.63	56.45	56.27	56.10	55.92	55.74	55.56	55.39	55.21	53.4
53.5	57.08	56.90	56.73	56.55	56.37	56.20	56.02	55.84	55.66	55.48	55.31	53.5
53.6	57.17	57.00	56.82	56.65	56.47	56.29	56.12	55.94	55.76	55.58	55.40	53.6
53.7	57.27	57.10	56.92	56.74	56.57	56.39	56.21	56.04	55.86	55.68	55.50	53.7
53.8	57.37	57.19	57.02	56.84	56.67	56.49	56.31	56.14	55.96	55.78	55.60	53.8
53.9	57.47	57.29	57.12	56.94	56.76	56.59	56.41	56.23	56.06	55.88	55.70	53.9
54	57.56	57.39	57.21	57.04	56.86	56.69	56.51	56.33	56.15	55.98	55.80	54
54.1	57.66	57.49	57.31	57.14	56.96	56.78	56.61	56.43	56.25	56.08	55.90	54.1
54.2	57.76	57.58	57.41	57.23	57.06	56.88	56.71	56.53	56.35	56.17	56.00	54.2
54.3	57.86	57.68	57.51	57.33	57.16	56.98	56.80	56.63	56.45	56.27	56.10	54.3
54.4	57.95	57.78	57.61	57.43	57.25	57.08	56.90	56.73	56.55	56.37	56.19	54.4
54.5	58.05	57.88	57.70	57.53	57.35	57.18	57.00	56.82	56.65	56.47	56.29	54.5
54.6	58.15	57.98	57.80	57.63	57.45	57.27	57.10	56.92	56.75	56.57	56.39	54.6
54.7	58.25	58.07	57.90	57.72	57.55	57.37	57.20	57.02	56.84	56.67	56.49	54.7
54.8	58.34	58.17	58.00	57.82	57.65	57.47	57.30	57.12	56.94	56.77	56.59	54.8
54.9	58.44	58.27	58.09	57.92	57.74	57.57	57.39	57.22	57.04	56.87	56.69	54.9
55	58.54	58.37	58.19	58.02	57.84	57.67	57.49	57.32	57.14	56.96	56.79	55



表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	
55	58.54	58.37	58.19	58.02	57.84	57.67	57.49	57.32	57.14	56.96	56.79	55
55.1	58.64	58.46	58.29	58.12	57.94	57.77	57.59	57.41	57.24	57.06	56.89	55.1
55.2	58.73	58.56	58.39	58.21	58.04	57.86	57.69	57.51	57.34	57.16	56.98	55.2
55.3	58.83	58.66	58.49	58.31	58.14	57.96	57.79	57.61	57.44	57.26	57.08	55.3
55.4	58.93	58.76	58.58	58.41	58.23	58.06	57.89	57.71	57.53	57.36	57.18	55.4
55.5	59.03	58.85	58.68	58.51	58.33	58.16	57.98	57.81	57.63	57.46	57.28	55.5
55.6	59.13	58.95	58.78	58.61	58.43	58.26	58.08	57.91	57.73	57.56	57.38	55.6
55.7	59.22	59.05	58.88	58.70	58.53	58.35	58.18	58.01	57.83	57.65	57.48	55.7
55.8	59.32	59.15	58.97	58.80	58.63	58.45	58.28	58.10	57.93	57.75	57.58	55.8
55.9	59.42	59.25	59.07	58.90	58.73	58.55	58.38	58.20	58.03	57.85	57.68	55.9
56	59.52	59.34	59.17	59.00	58.82	58.65	58.48	58.30	58.13	57.95	57.77	56
56.1	59.61	59.44	59.27	59.10	58.92	58.75	58.57	58.40	58.22	58.05	57.87	56.1
56.2	59.71	59.54	59.37	59.19	59.02	58.85	58.67	58.50	58.32	58.15	57.97	56.2
56.3	59.81	59.64	59.46	59.29	59.12	58.94	58.77	58.60	58.42	58.25	58.07	56.3
56.4	59.91	59.73	59.56	59.39	59.22	59.04	58.87	58.69	58.52	58.35	58.17	56.4
56.5	60.00	59.83	59.66	59.49	59.31	59.14	58.97	58.79	58.62	58.44	58.27	56.5
56.6	60.10	59.93	59.76	59.59	59.41	59.24	59.07	58.89	58.72	58.54	58.37	56.6
56.7	60.20	60.03	59.86	59.68	59.51	59.34	59.16	58.99	58.82	58.64	58.47	56.7
56.8	60.30	60.13	59.95	59.78	59.61	59.44	59.26	59.09	58.91	58.74	58.57	56.8
56.9	60.39	60.22	60.05	59.88	59.71	59.53	59.36	59.19	59.01	58.84	58.66	56.9
57	60.49	60.32	60.15	59.98	59.80	59.63	59.46	59.29	59.11	58.94	58.76	57
57.1	60.59	60.42	60.25	60.08	59.90	59.73	59.56	59.38	59.21	59.04	58.86	57.1
57.2	60.69	60.52	60.34	60.17	60.00	59.83	59.66	59.48	59.31	59.14	58.96	57.2
57.3	60.79	60.61	60.44	60.27	60.10	59.93	59.75	59.58	59.41	59.23	59.06	57.3
57.4	60.88	60.71	60.54	60.37	60.20	60.03	59.85	59.68	59.51	59.33	59.16	57.4
57.5	60.98	60.81	60.64	60.47	60.30	60.12	59.95	59.78	59.60	59.43	59.26	57.5
57.6	61.08	60.91	60.74	60.57	60.39	60.22	60.05	59.88	59.70	59.53	59.36	57.6
57.7	61.18	61.01	60.83	60.66	60.49	60.32	60.15	59.97	59.80	59.63	59.46	57.7
57.8	61.27	61.10	60.93	60.76	60.59	60.42	60.25	60.07	59.90	59.73	59.55	57.8
57.9	61.37	61.20	61.03	60.86	60.69	60.52	60.34	60.17	60.00	59.83	59.65	57.9
58	61.47	61.30	61.13	60.96	60.79	60.61	60.44	60.27	60.10	59.92	59.75	58
58.1	61.57	61.40	61.23	61.06	60.88	60.71	60.54	60.37	60.20	60.02	59.85	58.1
58.2	61.66	61.49	61.32	61.15	60.98	60.81	60.64	60.47	60.30	60.12	59.95	58.2
58.3	61.76	61.59	61.42	61.25	61.08	60.91	60.74	60.57	60.39	60.22	60.05	58.3
58.4	61.86	61.69	61.52	61.35	61.18	61.01	60.84	60.66	60.49	60.32	60.15	58.4
58.5	61.96	61.79	61.62	61.45	61.28	61.11	60.93	60.76	60.59	60.42	60.25	58.5
58.6	62.06	61.89	61.72	61.55	61.38	61.20	61.03	60.86	60.69	60.52	60.34	58.6
58.7	62.15	61.98	61.81	61.64	61.47	61.30	61.13	60.96	60.79	60.62	60.44	58.7
58.8	62.25	62.08	61.91	61.74	61.57	61.40	61.23	61.06	60.89	60.71	60.54	58.8
58.9	62.35	62.18	62.01	61.84	61.67	61.50	61.33	61.16	60.99	60.81	60.64	58.9
59	62.45	62.28	62.11	61.94	61.77	61.60	61.43	61.26	61.08	60.91	60.74	59
59.1	62.54	62.38	62.21	62.04	61.87	61.70	61.53	61.35	61.18	61.01	60.84	59.1
59.2	62.64	62.47	62.30	62.13	61.96	61.79	61.62	61.45	61.28	61.11	60.94	59.2
59.3	62.74	62.57	62.40	62.23	62.06	61.89	61.72	61.55	61.38	61.21	61.04	59.3
59.4	62.84	62.67	62.50	62.33	62.16	61.99	61.82	61.65	61.48	61.31	61.14	59.4
59.5	62.93	62.77	62.60	62.43	62.26	62.09	61.92	61.75	61.58	61.41	61.23	59.5
59.6	63.03	62.86	62.70	62.53	62.36	62.19	62.02	61.85	61.68	61.50	61.33	59.6
59.7	63.13	62.96	62.79	62.62	62.46	62.29	62.12	61.95	61.77	61.60	61.43	59.7
59.8	63.23	63.06	62.89	62.72	62.55	62.38	62.21	62.04	61.87	61.70	61.53	59.8
59.9	63.33	63.16	62.99	62.82	62.65	62.48	62.31	62.14	61.97	61.80	61.63	59.9
60	63.42	63.26	63.09	62.92	62.75	62.58	62.41	62.24	62.07	61.90	61.73	60

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃										酒精度 % vol	
	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5		15
60	63.42	63.26	63.09	62.92	62.75	62.58	62.41	62.24	62.07	61.90	61.73	60
60.1	63.52	63.35	63.19	63.02	62.85	62.68	62.51	62.34	62.17	62.00	61.83	60.1
60.2	63.62	63.45	63.28	63.11	62.95	62.78	62.61	62.44	62.27	62.10	61.93	60.2
60.3	63.72	63.55	63.38	63.21	63.04	62.88	62.71	62.54	62.37	62.20	62.03	60.3
60.4	63.81	63.65	63.48	63.31	63.14	62.97	62.80	62.64	62.47	62.30	62.12	60.4
60.5	63.91	63.74	63.58	63.41	63.24	63.07	62.90	62.73	62.56	62.39	62.22	60.5
60.6	64.01	63.84	63.68	63.51	63.34	63.17	63.00	62.83	62.66	62.49	62.32	60.6
60.7	64.11	63.94	63.77	63.61	63.44	63.27	63.10	62.93	62.76	62.59	62.42	60.7
60.8	64.21	64.04	63.87	63.70	63.54	63.37	63.20	63.03	62.86	62.69	62.52	60.8
60.9	64.30	64.14	63.97	63.80	63.63	63.47	63.30	63.13	62.96	62.79	62.62	60.9
61	64.40	64.23	64.07	63.90	63.73	63.56	63.40	63.23	63.06	62.89	62.72	61
61.1	64.50	64.33	64.17	64.00	63.83	63.66	63.49	63.32	63.16	62.99	62.82	61.1
61.2	64.60	64.43	64.26	64.10	63.93	63.76	63.59	63.42	63.25	63.09	62.92	61.2
61.3	64.69	64.53	64.36	64.19	64.03	63.86	63.69	63.52	63.35	63.18	63.01	61.3
61.4	64.79	64.63	64.46	64.29	64.12	63.96	63.79	63.62	63.45	63.28	63.11	61.4
61.5	64.89	64.72	64.56	64.39	64.22	64.06	63.89	63.72	63.55	63.38	63.21	61.5
61.6	64.99	64.82	64.65	64.49	64.32	64.15	63.99	63.82	63.65	63.48	63.31	61.6
61.7	65.09	64.92	64.75	64.59	64.42	64.25	64.08	63.92	63.75	63.58	63.41	61.7
61.8	65.18	65.02	64.85	64.68	64.52	64.35	64.18	64.01	63.85	63.68	63.51	61.8
61.9	65.28	65.11	64.95	64.78	64.62	64.45	64.28	64.11	63.94	63.78	63.61	61.9
62	65.38	65.21	65.05	64.88	64.71	64.55	64.38	64.21	64.04	63.88	63.71	62
62.1	65.48	65.31	65.14	64.98	64.81	64.65	64.48	64.31	64.14	63.97	63.81	62.1
62.2	65.57	65.41	65.24	65.08	64.91	64.74	64.58	64.41	64.24	64.07	63.90	62.2
62.3	65.67	65.51	65.34	65.17	65.01	64.84	64.67	64.51	64.34	64.17	64.00	62.3
62.4	65.77	65.60	65.44	65.27	65.11	64.94	64.77	64.61	64.44	64.27	64.10	62.4
62.5	65.87	65.70	65.54	65.37	65.20	65.04	64.87	64.70	64.54	64.37	64.20	62.5
62.6	65.96	65.80	65.63	65.47	65.30	65.14	64.97	64.80	64.64	64.47	64.30	62.6
62.7	66.06	65.90	65.73	65.57	65.40	65.23	65.07	64.90	64.73	64.57	64.40	62.7
62.8	66.16	66.00	65.83	65.67	65.50	65.33	65.17	65.00	64.83	64.67	64.50	62.8
62.9	66.26	66.09	65.93	65.76	65.60	65.43	65.27	65.10	64.93	64.76	64.60	62.9
63	66.36	66.19	66.03	65.86	65.70	65.53	65.36	65.20	65.03	64.86	64.70	63
63.1	66.45	66.29	66.12	65.96	65.79	65.63	65.46	65.30	65.13	64.96	64.79	63.1
63.2	66.55	66.39	66.22	66.06	65.89	65.73	65.56	65.39	65.23	65.06	64.89	63.2
63.3	66.65	66.48	66.32	66.16	65.99	65.82	65.66	65.49	65.33	65.16	64.99	63.3
63.4	66.75	66.58	66.42	66.25	66.09	65.92	65.76	65.59	65.42	65.26	65.09	63.4
63.5	66.84	66.68	66.52	66.35	66.19	66.02	65.86	65.69	65.52	65.36	65.19	63.5
63.6	66.94	66.78	66.61	66.45	66.28	66.12	65.95	65.79	65.62	65.46	65.29	63.6
63.7	67.04	66.88	66.71	66.55	66.38	66.22	66.05	65.89	65.72	65.55	65.39	63.7
63.8	67.14	66.97	66.81	66.65	66.48	66.32	66.15	65.99	65.82	65.65	65.49	63.8
63.9	67.24	67.07	66.91	66.74	66.58	66.41	66.25	66.08	65.92	65.75	65.58	63.9
64	67.33	67.17	67.01	66.84	66.68	66.51	66.35	66.18	66.02	65.85	65.68	64
64.1	67.43	67.27	67.10	66.94	66.78	66.61	66.45	66.28	66.11	65.95	65.78	64.1
64.2	67.53	67.37	67.20	67.04	66.87	66.71	66.54	66.38	66.21	66.05	65.88	64.2
64.3	67.63	67.46	67.30	67.14	66.97	66.81	66.64	66.48	66.31	66.15	65.98	64.3
64.4	67.72	67.56	67.40	67.23	67.07	66.91	66.74	66.58	66.41	66.25	66.08	64.4
64.5	67.82	67.66	67.50	67.33	67.17	67.00	66.84	66.67	66.51	66.34	66.18	64.5
64.6	67.92	67.76	67.59	67.43	67.27	67.10	66.94	66.77	66.61	66.44	66.28	64.6
64.7	68.02	67.85	67.69	67.53	67.36	67.20	67.04	66.87	66.71	66.54	66.38	64.7
64.8	68.11	67.95	67.79	67.63	67.46	67.30	67.13	66.97	66.81	66.64	66.47	64.8
64.9	68.21	68.05	67.89	67.72	67.56	67.40	67.23	67.07	66.90	66.74	66.57	64.9
65	68.31	68.15	67.99	67.82	67.66	67.50	67.33	67.17	67.00	66.84	66.67	65

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃										酒精度 % vol	
	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5		15
65	68.31	68.15	67.99	67.82	67.66	67.50	67.33	67.17	67.00	66.84	66.67	65
65.1	68.41	68.25	68.08	67.92	67.76	67.59	67.43	67.27	67.10	66.94	66.77	65.1
65.2	68.51	68.34	68.18	68.02	67.86	67.69	67.53	67.36	67.20	67.04	66.87	65.2
65.3	68.60	68.44	68.28	68.12	67.95	67.79	67.63	67.46	67.30	67.13	66.97	65.3
65.4	68.70	68.54	68.38	68.21	68.05	67.89	67.72	67.56	67.40	67.23	67.07	65.4
65.5	68.80	68.64	68.47	68.31	68.15	67.99	67.82	67.66	67.50	67.33	67.17	65.5
65.6	68.90	68.73	68.57	68.41	68.25	68.08	67.92	67.76	67.59	67.43	67.27	65.6
65.7	68.99	68.83	68.67	68.51	68.35	68.18	68.02	67.86	67.69	67.53	67.36	65.7
65.8	69.09	68.93	68.77	68.61	68.44	68.28	68.12	67.96	67.79	67.63	67.46	65.8
65.9	69.19	69.03	68.87	68.70	68.54	68.38	68.22	68.05	67.89	67.73	67.56	65.9
66	69.29	69.13	68.96	68.80	68.64	68.48	68.32	68.15	67.99	67.82	67.66	66
66.1	69.38	69.22	69.06	68.90	68.74	68.58	68.41	68.25	68.09	67.92	67.76	66.1
66.2	69.48	69.32	69.16	69.00	68.84	68.67	68.51	68.35	68.19	68.02	67.86	66.2
66.3	69.58	69.42	69.26	69.10	68.93	68.77	68.61	68.45	68.28	68.12	67.96	66.3
66.4	69.68	69.52	69.36	69.19	69.03	68.87	68.71	68.55	68.38	68.22	68.06	66.4
66.5	69.78	69.61	69.45	69.29	69.13	68.97	68.81	68.64	68.48	68.32	68.15	66.5
66.6	69.87	69.71	69.55	69.39	69.23	69.07	68.91	68.74	68.58	68.42	68.25	66.6
66.7	69.97	69.81	69.65	69.49	69.33	69.17	69.00	68.84	68.68	68.52	68.35	66.7
66.8	70.07	69.91	69.75	69.59	69.43	69.26	69.10	68.94	68.78	68.61	68.45	66.8
66.9	70.17	70.01	69.85	69.68	69.52	69.36	69.20	69.04	68.88	68.71	68.55	66.9
67	70.26	70.10	69.94	69.78	69.62	69.46	69.30	69.14	68.97	68.81	68.65	67
67.1	70.36	70.20	70.04	69.88	69.72	69.56	69.40	69.24	69.07	68.91	68.75	67.1
67.2	70.46	70.30	70.14	69.98	69.82	69.66	69.50	69.33	69.17	69.01	68.85	67.2
67.3	70.56	70.40	70.24	70.08	69.92	69.76	69.59	69.43	69.27	69.11	68.95	67.3
67.4	70.65	70.49	70.33	70.17	70.01	69.85	69.69	69.53	69.37	69.21	69.04	67.4
67.5	70.75	70.59	70.43	70.27	70.11	69.95	69.79	69.63	69.47	69.31	69.14	67.5
67.6	70.85	70.69	70.53	70.37	70.21	70.05	69.89	69.73	69.57	69.40	69.24	67.6
67.7	70.95	70.79	70.63	70.47	70.31	70.15	69.99	69.83	69.66	69.50	69.34	67.7
67.8	71.04	70.89	70.73	70.57	70.41	70.25	70.09	69.92	69.76	69.60	69.44	67.8
67.9	71.14	70.98	70.82	70.66	70.50	70.34	70.18	70.02	69.86	69.70	69.54	67.9
68	71.24	71.08	70.92	70.76	70.60	70.44	70.28	70.12	69.96	69.80	69.64	68
68.1	71.34	71.18	71.02	70.86	70.70	70.54	70.38	70.22	70.06	69.90	69.74	68.1
68.2	71.43	71.28	71.12	70.96	70.80	70.64	70.48	70.32	70.16	70.00	69.83	68.2
68.3	71.53	71.37	71.22	71.06	70.90	70.74	70.58	70.42	70.26	70.09	69.93	68.3
68.4	71.63	71.47	71.31	71.15	70.99	70.84	70.68	70.52	70.35	70.19	70.03	68.4
68.5	71.73	71.57	71.41	71.25	71.09	70.93	70.77	70.61	70.45	70.29	70.13	68.5
68.6	71.83	71.67	71.51	71.35	71.19	71.03	70.87	70.71	70.55	70.39	70.23	68.6
68.7	71.92	71.76	71.61	71.45	71.29	71.13	70.97	70.81	70.65	70.49	70.33	68.7
68.8	72.02	71.86	71.70	71.55	71.39	71.23	71.07	70.91	70.75	70.59	70.43	68.8
68.9	72.12	71.96	71.80	71.64	71.49	71.33	71.17	71.01	70.85	70.69	70.53	68.9
69	72.22	72.06	71.90	71.74	71.58	71.42	71.27	71.11	70.95	70.79	70.62	69
69.1	72.31	72.16	72.00	71.84	71.68	71.52	71.36	71.20	71.04	70.88	70.72	69.1
69.2	72.41	72.25	72.10	71.94	71.78	71.62	71.46	71.30	71.14	70.98	70.82	69.2
69.3	72.51	72.35	72.19	72.04	71.88	71.72	71.56	71.40	71.24	71.08	70.92	69.3
69.4	72.61	72.45	72.29	72.13	71.98	71.82	71.66	71.50	71.34	71.18	71.02	69.4
69.5	72.70	72.55	72.39	72.23	72.07	71.92	71.76	71.60	71.44	71.28	71.12	69.5
69.6	72.80	72.64	72.49	72.33	72.17	72.01	71.85	71.70	71.54	71.38	71.22	69.6
69.7	72.90	72.74	72.58	72.43	72.27	72.11	71.95	71.79	71.64	71.48	71.32	69.7
69.8	73.00	72.84	72.68	72.53	72.37	72.21	72.05	71.89	71.73	71.57	71.42	69.8
69.9	73.09	72.94	72.78	72.62	72.47	72.31	72.15	71.99	71.83	71.67	71.51	69.9
70	73.19	73.03	72.88	72.72	72.56	72.41	72.25	72.09	71.93	71.77	71.61	70

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃										酒精度 % vol	
	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5		20
18	19.41	19.27	19.13	18.99	18.85	18.71	18.57	18.42	18.28	18.14	18.00	18
18.1	19.52	19.38	19.23	19.09	18.95	18.81	18.67	18.53	18.39	18.24	18.10	18.1
18.2	19.62	19.48	19.34	19.20	19.06	18.91	18.77	18.63	18.49	18.34	18.20	18.2
18.3	19.73	19.59	19.45	19.30	19.16	19.02	18.88	18.73	18.59	18.44	18.30	18.3
18.4	19.84	19.70	19.55	19.41	19.27	19.12	18.98	18.83	18.69	18.54	18.40	18.4
18.5	19.95	19.80	19.66	19.52	19.37	19.23	19.08	18.94	18.79	18.65	18.50	18.5
18.6	20.06	19.91	19.77	19.62	19.48	19.33	19.18	19.04	18.89	18.75	18.60	18.6
18.7	20.16	20.02	19.87	19.73	19.58	19.43	19.29	19.14	18.99	18.85	18.70	18.7
18.8	20.27	20.13	19.98	19.83	19.68	19.54	19.39	19.24	19.10	18.95	18.80	18.8
18.9	20.38	20.23	20.08	19.94	19.79	19.64	19.49	19.34	19.20	19.05	18.90	18.9
19	20.49	20.34	20.19	20.04	19.89	19.74	19.60	19.45	19.30	19.15	19.00	19
19.1	20.60	20.45	20.30	20.15	20.00	19.85	19.70	19.55	19.40	19.25	19.10	19.1
19.2	20.70	20.55	20.40	20.25	20.10	19.95	19.80	19.65	19.50	19.35	19.20	19.2
19.3	20.81	20.66	20.51	20.36	20.21	20.06	19.90	19.75	19.60	19.45	19.30	19.3
19.4	20.92	20.77	20.62	20.46	20.31	20.16	20.01	19.86	19.70	19.55	19.40	19.4
19.5	21.03	20.87	20.72	20.57	20.42	20.26	20.11	19.96	19.81	19.65	19.50	19.5
19.6	21.14	20.98	20.83	20.67	20.52	20.37	20.21	20.06	19.91	19.75	19.60	19.6
19.7	21.24	21.09	20.93	20.78	20.62	20.47	20.32	20.16	20.01	19.85	19.70	19.7
19.8	21.35	21.19	21.04	20.88	20.73	20.57	20.42	20.26	20.11	19.95	19.80	19.8
19.9	21.46	21.30	21.25	20.99	20.83	20.68	20.52	20.37	20.21	20.06	19.90	19.9
20	21.57	21.41	21.25	21.09	20.94	20.78	20.62	20.47	20.31	20.16	20.00	20
20.1	21.67	21.52	21.36	21.20	21.04	20.88	20.73	20.57	20.41	20.26	20.10	20.1
20.2	21.78	21.62	21.46	21.30	21.15	20.99	20.83	20.67	20.51	20.36	20.20	20.2
20.3	21.89	21.73	21.57	21.41	21.25	21.09	20.93	20.77	20.62	20.46	20.30	20.3
20.4	22.00	21.83	21.67	21.51	21.35	21.20	21.04	20.88	20.72	20.56	20.40	20.4
20.5	22.10	21.94	21.78	21.62	21.46	21.30	21.14	20.98	20.82	20.66	20.50	20.5
20.6	22.21	22.05	21.89	21.72	21.56	21.40	21.24	21.08	20.92	20.76	20.60	20.6
20.7	22.32	22.15	21.99	21.83	21.67	21.51	21.34	21.18	21.02	20.86	20.70	20.7
20.8	22.42	22.26	22.10	21.93	21.77	21.61	21.45	21.28	21.12	20.96	20.80	20.8
20.9	22.53	22.37	22.20	22.04	21.88	21.71	21.55	21.39	21.22	21.06	20.90	20.9
21	22.64	22.47	22.31	22.14	21.98	21.82	21.65	21.49	21.33	21.16	21.00	21
21.1	22.75	22.58	22.41	22.25	22.08	21.92	21.75	21.59	21.43	21.26	21.10	21.1
21.2	22.85	22.69	22.52	22.35	22.19	22.02	21.86	21.69	21.53	21.36	21.20	21.2
21.3	22.96	22.79	22.63	22.46	22.29	22.13	21.96	21.79	21.63	21.46	21.30	21.3
21.4	23.07	22.90	22.73	22.56	22.40	22.23	22.06	21.90	21.73	21.57	21.40	21.4
21.5	23.17	23.01	22.84	22.67	22.50	22.33	22.17	22.00	21.83	21.67	21.50	21.5
21.6	23.28	23.11	22.94	22.77	22.60	22.44	22.27	22.10	21.93	21.77	21.60	21.6
21.7	23.39	23.22	23.05	22.88	22.71	22.54	22.37	22.20	22.03	21.87	21.70	21.7
21.8	23.49	23.32	23.15	22.98	22.81	22.64	22.47	22.30	22.14	21.97	21.80	21.8
21.9	23.60	23.43	23.26	23.09	22.92	22.75	22.58	22.41	22.24	22.07	21.90	21.9
22	23.71	23.54	23.36	23.19	23.02	22.85	22.68	22.51	22.34	22.17	22.00	22
22.1	23.81	23.64	23.47	23.30	23.12	22.95	22.78	22.61	22.44	22.27	22.10	22.1
22.2	23.92	23.75	23.57	23.40	23.23	23.06	22.88	22.71	22.54	22.37	22.20	22.2
22.3	24.03	23.85	23.68	23.50	23.33	23.16	22.99	22.81	22.64	22.47	22.30	22.3
22.4	24.13	23.96	23.78	23.61	23.43	23.26	23.09	22.92	22.74	22.57	22.40	22.4
22.5	24.24	24.06	23.89	23.71	23.54	23.36	23.19	23.02	22.84	22.67	22.50	22.5
22.6	24.35	24.17	23.99	23.82	23.64	23.47	23.29	23.12	22.95	22.77	22.60	22.6
22.7	24.45	24.28	24.10	23.92	23.75	23.57	23.40	23.22	23.05	22.87	22.70	22.7
22.8	24.56	24.38	24.20	24.03	23.85	23.67	23.50	23.32	23.15	22.97	22.80	22.8
22.9	24.67	24.49	24.31	24.13	23.95	23.78	23.60	23.42	23.25	23.07	22.90	22.9
23	24.77	24.59	24.41	24.23	24.06	23.88	23.70	23.53	23.35	23.17	23.00	23
23.1	24.88	24.70	24.52	24.34	24.16	23.98	23.80	23.63	23.45	23.28	23.10	23.1
23.2	24.98	24.80	24.62	24.44	24.26	24.08	23.91	23.73	23.55	23.38	23.20	23.2
23.3	25.09	24.91	24.73	24.55	24.37	24.19	24.01	23.83	23.65	23.48	23.30	23.3
23.4	25.19	25.01	24.83	24.65	24.47	24.29	24.11	23.93	23.75	23.58	23.40	23.4
23.5	25.30	25.12	24.94	24.75	24.57	24.39	24.21	24.03	23.86	23.68	23.50	23.5
23.6	25.41	25.22	25.04	24.86	24.68	24.50	24.32	24.14	23.96	23.78	23.60	23.6
23.7	25.51	25.33	25.14	24.96	24.78	24.60	24.42	24.24	24.06	23.88	23.70	23.7
23.8	25.62	25.43	25.25	25.07	24.88	24.70	24.52	24.34	24.16	23.98	23.80	23.8
23.9	25.72	25.54	25.35	25.17	24.99	24.80	24.62	24.44	24.26	24.08	23.90	23.9
24	25.83	25.64	25.46	25.27	25.09	24.91	24.72	24.54	24.36	24.18	24.00	24
24.1	25.93	25.75	25.56	25.38	25.19	25.01	24.83	24.64	24.46	24.28	24.10	24.1
24.2	26.04	25.85	25.67	25.48	25.30	25.11	24.93	24.75	24.56	24.38	24.20	24.2
24.3	26.14	25.96	25.77	25.58	25.40	25.21	25.03	24.85	24.66	24.48	24.30	24.3
24.4	26.25	26.06	25.87	25.69	25.50	25.32	25.13	24.95	24.77	24.58	24.40	24.4
24.5	26.35	26.17	25.98	25.79	25.61	25.42	25.23	25.05	24.87	24.68	24.50	24.5
24.6	26.46	26.27	26.08	25.89	25.71	25.52	25.34	25.15	24.97	24.78	24.60	24.6
24.7	26.56	26.37	26.19	26.00	25.81	25.62	25.44	25.25	25.07	24.88	24.70	24.7
24.8	26.67	26.48	26.29	26.10	25.91	25.73	25.54	25.35	25.17	24.98	24.80	24.8
24.9	26.7	26.58	26.39	26.20	26.02	25.83	25.64	25.46	25.27	25.08	24.90	24.9

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	
25	26.88	26.69	26.50	26.31	26.12	25.93	25.74	25.56	25.37	25.19	25.00	25
25.1	26.98	26.79	26.60	26.41	26.22	26.03	25.85	25.66	25.47	25.29	25.10	25.1
25.2	27.09	26.90	26.70	26.51	26.32	26.14	25.95	25.76	25.57	25.39	25.20	25.2
25.3	27.19	27.00	26.81	26.62	26.43	26.24	26.05	25.86	25.67	25.49	25.30	25.3
25.4	27.30	27.10	26.91	26.72	26.53	26.34	26.15	25.96	25.77	25.59	25.40	25.4
25.5	27.40	27.21	27.02	26.82	26.63	26.44	26.25	26.06	25.88	25.69	25.50	25.5
25.6	27.50	27.31	27.12	26.93	26.74	26.54	26.35	26.17	25.98	25.79	25.60	25.6
25.7	27.61	27.42	27.22	27.03	26.84	26.65	26.46	26.27	26.08	25.89	25.70	25.7
25.8	27.71	27.52	27.33	27.13	26.94	26.75	26.56	26.37	26.18	25.99	25.80	25.8
25.9	27.82	27.62	27.43	27.24	27.04	26.85	26.66	26.47	26.28	26.09	25.90	25.9
26	27.92	27.73	27.53	27.34	27.15	26.95	26.76	26.57	26.38	26.19	26.00	26
26.1	28.03	27.83	27.64	27.44	27.25	27.05	26.86	26.67	26.48	26.29	26.10	26.1
26.2	28.13	27.93	27.74	27.54	27.35	27.16	26.96	26.77	26.58	26.39	26.20	26.2
26.3	28.23	28.04	27.84	27.65	27.45	27.26	27.07	26.87	26.68	26.49	26.30	26.3
26.4	28.34	28.14	27.94	27.75	27.55	27.36	27.17	26.97	26.78	26.59	26.40	26.4
26.5	28.44	28.24	28.05	27.85	27.66	27.46	27.27	27.08	26.88	26.69	26.50	26.5
26.6	28.54	28.35	28.15	27.95	27.76	27.56	27.37	27.18	26.98	26.79	26.60	26.6
26.7	28.65	28.45	28.25	28.06	27.86	27.67	27.47	27.28	27.08	26.89	26.70	26.7
26.8	28.75	28.55	28.36	28.16	27.96	27.77	27.57	27.38	27.19	26.99	26.80	26.8
26.9	28.85	28.66	28.46	28.26	28.07	27.87	27.67	27.48	27.29	27.09	26.90	26.9
27	28.96	28.76	28.56	28.36	28.17	27.97	27.78	27.58	27.39	27.19	27.00	27
27.1	29.06	28.86	28.66	28.47	28.27	28.07	27.88	27.68	27.49	27.29	27.10	27.1
27.2	29.16	28.96	28.77	28.57	28.37	28.17	27.98	27.78	27.59	27.39	27.20	27.2
27.3	29.27	29.07	28.87	28.67	28.47	28.28	28.08	27.88	27.69	27.49	27.30	27.3
27.4	29.37	29.17	28.97	28.77	28.58	28.38	28.18	27.99	27.79	27.59	27.40	27.4
27.5	29.47	29.27	29.07	28.88	28.68	28.48	28.28	28.09	27.89	27.69	27.50	27.5
27.6	29.58	29.38	29.18	28.98	28.78	28.58	28.38	28.19	27.99	27.80	27.60	27.6
27.7	29.68	29.48	29.28	29.08	28.88	28.68	28.48	28.29	28.09	27.90	27.70	27.7
27.8	29.78	29.58	29.38	29.18	28.98	28.78	28.59	28.39	28.19	28.00	27.80	27.8
27.9	29.88	29.68	29.48	29.28	29.08	28.89	28.69	28.49	28.29	28.10	27.90	27.9
28	29.99	29.79	29.59	29.39	29.19	28.99	28.79	28.59	28.39	28.20	28.00	28
28.1	30.09	29.89	29.69	29.49	29.29	29.09	28.89	28.69	28.49	28.30	28.10	28.1
28.2	30.19	29.99	29.79	29.59	29.39	29.19	28.99	28.79	28.59	28.40	28.20	28.2
28.3	30.29	30.09	29.89	29.69	29.49	29.29	29.09	28.89	28.69	28.50	28.30	28.3
28.4	30.40	30.19	29.99	29.79	29.59	29.39	29.19	28.99	28.80	28.60	28.40	28.4
28.5	30.50	30.30	30.10	29.89	29.69	29.49	29.29	29.09	28.90	28.70	28.50	28.5
28.6	30.60	30.40	30.20	30.00	29.79	29.59	29.39	29.20	29.00	28.80	28.60	28.6
28.7	30.70	30.50	30.30	30.10	29.90	29.70	29.50	29.30	29.10	28.90	28.70	28.7
28.8	30.81	30.60	30.40	30.20	30.00	29.80	29.60	29.40	29.20	29.00	28.80	28.8
28.9	30.91	30.71	30.50	30.30	30.10	29.90	29.70	29.50	29.30	29.10	28.90	28.9
29	31.01	30.81	30.60	30.40	30.20	30.00	29.80	29.60	29.40	29.20	29.00	29
29.1	31.11	30.91	30.71	30.50	30.30	30.10	29.90	29.70	29.50	29.30	29.10	29.1
29.2	31.21	31.01	30.81	30.60	30.40	30.20	30.00	29.80	29.60	29.40	29.20	29.2
29.3	31.32	31.11	30.91	30.71	30.50	30.30	30.10	29.90	29.70	29.50	29.30	29.3
29.4	31.42	31.21	31.01	30.81	30.61	30.40	30.20	30.00	29.80	29.60	29.40	29.4
29.5	31.52	31.32	31.11	30.91	30.71	30.50	30.30	30.10	29.90	29.70	29.50	29.5
29.6	31.62	31.42	31.21	31.01	30.81	30.60	30.40	30.20	30.00	29.80	29.60	29.6
29.7	31.72	31.52	31.31	31.11	30.91	30.71	30.50	30.30	30.10	29.90	29.70	29.7
29.8	31.82	31.62	31.42	31.21	31.01	30.81	30.60	30.40	30.20	30.00	29.80	29.8
29.9	31.93	31.72	31.52	31.31	31.11	30.91	30.71	30.50	30.30	30.10	29.90	29.9
30	32.03	31.82	31.62	31.41	31.21	31.01	30.81	30.60	30.40	30.20	30.00	30

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	
30	32.03	31.82	31.62	31.41	31.21	31.01	30.81	30.60	30.40	30.20	30.00	30
30.1	32.13	31.92	31.72	31.52	31.31	31.11	30.91	30.70	30.50	30.30	30.10	30.1
30.2	32.23	32.03	31.82	31.62	31.41	31.21	31.01	30.80	30.60	30.40	30.20	30.2
30.3	32.33	32.13	31.92	31.72	31.51	31.31	31.11	30.91	30.70	30.50	30.30	30.3
30.4	32.43	32.23	32.02	31.82	31.62	31.41	31.21	31.01	30.80	30.60	30.40	30.4
30.5	32.53	32.33	32.12	31.92	31.72	31.51	31.31	31.11	30.90	30.70	30.50	30.5
30.6	32.64	32.43	32.23	32.02	31.82	31.61	31.41	31.21	31.00	30.80	30.60	30.6
30.7	32.74	32.53	32.33	32.12	31.92	31.71	31.51	31.31	31.10	30.90	30.70	30.7
30.8	32.84	32.63	32.43	32.22	32.02	31.81	31.61	31.41	31.20	31.00	30.80	30.8
30.9	32.94	32.73	32.53	32.32	32.12	31.91	31.71	31.51	31.30	31.10	30.90	30.9
31	33.04	32.83	32.63	32.42	32.22	32.02	31.81	31.61	31.41	31.20	31.00	31
31.1	33.14	32.94	32.73	32.52	32.32	32.12	31.91	31.71	31.51	31.30	31.10	31.1
31.2	33.24	33.04	32.83	32.63	32.42	32.22	32.01	31.81	31.61	31.40	31.20	31.2
31.3	33.34	33.14	32.93	32.73	32.52	32.32	32.11	31.91	31.71	31.50	31.30	31.3
31.4	33.44	33.24	33.03	32.83	32.62	32.42	32.21	32.01	31.81	31.60	31.40	31.4
31.5	33.54	33.34	33.13	32.93	32.72	32.52	32.31	32.11	31.91	31.70	31.50	31.5
31.6	33.65	33.44	33.23	33.03	32.82	32.62	32.41	32.21	32.01	31.80	31.60	31.6
31.7	33.75	33.54	33.33	33.13	32.92	32.72	32.51	32.31	32.11	31.90	31.70	31.7
31.8	33.85	33.64	33.43	33.23	33.02	32.82	32.61	32.41	32.21	32.00	31.80	31.8
31.9	33.95	33.74	33.54	33.33	33.12	32.92	32.72	32.51	32.31	32.10	31.90	31.9
32	34.05	33.84	33.64	33.43	33.22	33.02	32.82	32.61	32.41	32.20	32.00	32
32.1	34.15	33.94	33.74	33.53	33.33	33.12	32.92	32.71	32.51	32.30	32.10	32.1
32.2	34.25	34.04	33.84	33.63	33.43	33.22	33.02	32.81	32.61	32.40	32.20	32.2
32.3	34.35	34.14	33.94	33.73	33.53	33.32	33.12	32.91	32.71	32.50	32.30	32.3
32.4	34.45	34.24	34.04	33.83	33.63	33.42	33.22	33.01	32.81	32.60	32.40	32.4
32.5	34.55	34.34	34.14	33.93	33.73	33.52	33.32	33.11	32.91	32.70	32.50	32.5
32.6	34.65	34.44	34.24	34.03	33.83	33.62	33.42	33.21	33.01	32.80	32.60	32.6
32.7	34.75	34.54	34.34	34.13	33.93	33.72	33.52	33.31	33.11	32.90	32.70	32.7
32.8	34.85	34.64	34.44	34.23	34.03	33.82	33.62	33.41	33.21	33.00	32.80	32.8
32.9	34.95	34.74	34.54	34.33	34.13	33.92	33.72	33.51	33.31	33.10	32.90	32.9
33	35.05	34.84	34.64	34.43	34.23	34.02	33.82	33.61	33.41	33.20	33.00	33
33.1	35.15	34.94	34.74	34.53	34.33	34.12	33.92	33.71	33.51	33.30	33.10	33.1
33.2	35.25	35.04	34.84	34.63	34.43	34.22	34.02	33.81	33.61	33.40	33.20	33.2
33.3	35.35	35.14	34.94	34.73	34.53	34.32	34.12	33.91	33.71	33.50	33.30	33.3
33.4	35.45	35.24	35.04	34.83	34.63	34.42	34.22	34.01	33.81	33.60	33.40	33.4
33.5	35.55	35.34	35.14	34.93	34.73	34.52	34.32	34.11	33.91	33.70	33.50	33.5
33.6	35.65	35.44	35.24	35.03	34.83	34.62	34.42	34.21	34.01	33.80	33.60	33.6
33.7	35.75	35.54	35.34	35.13	34.93	34.72	34.52	34.31	34.11	33.90	33.70	33.7
33.8	35.85	35.64	35.44	35.23	35.03	34.82	34.62	34.41	34.21	34.00	33.80	33.8
33.9	35.95	35.74	35.54	35.33	35.13	34.92	34.72	34.51	34.31	34.10	33.90	33.9
34	36.05	35.84	35.64	35.43	35.23	35.02	34.82	34.61	34.41	34.20	34.00	34
34.1	36.15	35.94	35.74	35.53	35.33	35.12	34.92	34.71	34.51	34.30	34.10	34.1
34.2	36.25	36.04	35.84	35.63	35.43	35.22	35.02	34.81	34.61	34.40	34.20	34.2
34.3	36.35	36.14	35.94	35.73	35.53	35.32	35.12	34.91	34.71	34.50	34.30	34.3
34.4	36.45	36.24	36.04	35.83	35.63	35.42	35.22	35.01	34.81	34.60	34.40	34.4
34.5	36.55	36.34	36.14	35.93	35.73	35.52	35.32	35.11	34.91	34.70	34.50	34.5
34.6	36.63	36.44	36.24	36.03	35.83	35.62	35.42	35.21	35.01	34.80	34.60	34.6
34.7	36.75	36.54	36.34	36.13	35.93	35.72	35.52	35.31	35.11	34.90	34.70	34.7
34.8	36.85	36.64	36.44	36.23	36.03	35.82	35.62	35.41	35.21	35.00	34.80	34.8
34.9	36.95	36.74	36.54	36.33	36.13	35.92	35.72	35.51	35.31	35.10	34.90	34.9
35	37.05	36.84	36.64	36.43	36.23	36.02	35.82	35.61	35.41	35.20	35.00	35

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃										酒精度 % vol	
	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5		20
35	37.05	36.84	36.64	36.43	36.23	36.02	35.82	35.61	35.41	35.20	35.00	35
35.1	37.15	36.94	36.74	36.53	36.33	36.12	35.92	35.71	35.51	35.30	35.10	35.1
35.2	37.25	37.04	36.84	36.63	36.43	36.22	36.02	35.81	35.61	35.40	35.20	35.2
35.3	37.34	37.14	36.94	36.73	36.53	36.32	36.12	35.91	35.71	35.50	35.30	35.3
35.4	37.44	37.24	37.03	36.83	36.63	36.42	36.22	36.01	35.81	35.60	35.40	35.4
35.5	37.54	37.34	37.13	36.93	36.73	36.52	36.32	36.11	35.91	35.70	35.50	35.5
35.6	37.64	37.44	37.23	37.03	36.82	36.62	36.42	36.21	36.01	35.80	35.60	35.6
35.7	37.74	37.54	37.33	37.13	36.92	36.72	36.52	36.31	36.11	35.90	35.70	35.7
35.8	37.84	37.64	37.43	37.23	37.02	36.82	36.62	36.41	36.21	36.00	35.80	35.8
35.9	37.94	37.74	37.53	37.33	37.12	36.92	36.72	36.51	36.31	36.10	35.90	35.9
36	38.04	37.84	37.63	37.43	37.22	37.02	36.82	36.61	36.41	36.20	36.00	36
36.1	38.14	37.94	37.73	37.53	37.32	37.12	36.92	36.71	36.51	36.30	36.10	36.1
36.2	38.24	38.03	37.83	37.63	37.42	37.22	37.01	36.81	36.61	36.40	36.20	36.2
36.3	38.34	38.13	37.93	37.73	37.52	37.32	37.11	36.91	36.71	36.50	36.30	36.3
36.4	38.44	38.23	38.03	37.83	37.62	37.42	37.21	37.01	36.81	36.60	36.40	36.4
36.5	38.54	38.33	38.13	37.93	37.72	37.52	37.31	37.11	36.91	36.70	36.50	36.5
36.6	38.64	38.43	38.23	38.02	37.82	37.62	37.41	37.21	37.01	36.80	36.60	36.6
36.7	38.73	38.53	38.33	38.12	37.92	37.72	37.51	37.31	37.11	36.90	36.70	36.7
36.8	38.83	38.63	38.43	38.22	38.02	37.82	37.61	37.41	37.21	37.00	36.80	36.8
36.9	38.93	38.73	38.53	38.32	38.12	37.92	37.71	37.51	37.31	37.10	36.90	36.9
37	39.03	38.83	38.63	38.42	38.22	38.02	37.81	37.61	37.41	37.20	37.00	37
37.1	39.13	38.93	38.72	38.52	38.32	38.12	37.91	37.71	37.51	37.30	37.10	37.1
37.2	39.23	39.03	38.82	38.62	38.42	38.21	38.01	37.81	37.61	37.40	37.20	37.2
37.3	39.33	39.13	38.92	38.72	38.52	38.31	38.11	37.91	37.71	37.50	37.30	37.3
37.4	39.43	39.23	39.02	38.82	38.62	38.41	38.21	38.01	37.81	37.60	37.40	37.4
37.5	39.53	39.32	39.12	38.92	38.72	38.51	38.31	38.11	37.91	37.70	37.50	37.5
37.6	39.63	39.42	39.22	39.02	38.82	38.61	38.41	38.21	38.01	37.80	37.60	37.6
37.7	39.72	39.52	39.32	39.12	38.92	38.71	38.51	38.31	38.11	37.90	37.70	37.7
37.8	39.82	39.62	39.42	39.22	39.01	38.81	38.61	38.41	38.20	38.00	37.80	37.8
37.9	39.92	39.72	39.52	39.32	39.11	38.91	38.71	38.51	38.30	38.10	37.90	37.9
38	40.02	39.82	39.62	39.42	39.21	39.01	38.81	38.61	38.40	38.20	38.00	38
38.1	40.12	39.92	39.72	39.51	39.31	39.11	38.91	38.71	38.50	38.30	38.10	38.1
38.2	40.22	40.02	39.82	39.61	39.41	39.21	39.01	38.81	38.60	38.40	38.20	38.2
38.3	40.32	40.12	39.91	39.71	39.51	39.31	39.11	38.91	38.70	38.50	38.30	38.3
38.4	40.42	40.22	40.01	39.81	39.61	39.41	39.21	39.01	38.80	38.60	38.40	38.4
38.5	40.52	40.31	40.11	39.91	39.71	39.51	39.31	39.11	38.90	38.70	38.50	38.5
38.6	40.61	40.41	40.21	40.01	39.81	39.61	39.41	39.21	39.00	38.80	38.60	38.6
38.7	40.71	40.51	40.31	40.11	39.91	39.71	39.51	39.30	39.10	38.90	38.70	38.7
38.8	40.81	40.61	40.41	40.21	40.01	39.81	39.61	39.40	39.20	39.00	38.80	38.8
38.9	40.91	40.71	40.51	40.31	40.11	39.91	39.71	39.50	39.30	39.10	38.90	38.9
39	41.01	40.81	40.61	40.41	40.21	40.01	39.80	39.60	39.40	39.20	39.00	39
39.1	41.11	40.91	40.71	40.51	40.31	40.11	39.90	39.70	39.50	39.30	39.10	39.1
39.2	41.21	41.01	40.81	40.61	40.41	40.20	40.00	39.80	39.60	39.40	39.20	39.2
39.3	41.31	41.11	40.91	40.71	40.50	40.30	40.10	39.90	39.70	39.50	39.30	39.3
39.4	41.40	41.20	41.00	40.80	40.60	40.40	40.20	40.00	39.80	39.60	39.40	39.4
39.5	41.50	41.30	41.10	40.90	40.70	40.50	40.30	40.10	39.90	39.70	39.50	39.5
39.6	41.60	41.40	41.20	41.00	40.80	40.60	40.40	40.20	40.00	39.80	39.60	39.6
39.7	41.70	41.50	41.30	41.10	40.90	40.70	40.50	40.30	40.10	39.90	39.70	39.7
39.8	41.80	41.60	41.40	41.20	41.00	40.80	40.60	40.40	40.20	40.00	39.80	39.8
39.9	41.90	41.70	41.50	41.30	41.10	40.90	40.70	40.50	40.30	40.10	39.90	39.9
40	42.00	41.80	41.60	41.40	41.20	41.00	40.80	40.60	40.40	40.20	40.00	40

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃										酒精度 % vol	
	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5		20
40	42.00	41.80	41.60	41.40	41.20	41.00	40.80	40.60	40.46	40.20	40.00	40
40.1	42.10	41.90	41.70	41.50	41.30	41.10	40.90	40.70	40.50	40.30	40.10	40.1
40.2	42.19	42.00	41.80	41.60	41.40	41.20	41.00	40.80	40.60	40.40	40.20	40.2
40.3	42.29	42.09	41.90	41.70	41.50	41.30	41.10	40.90	40.70	40.50	40.30	40.3
40.4	42.39	42.19	41.99	41.80	41.60	41.40	41.20	41.00	40.80	40.60	40.40	40.4
40.5	42.49	42.29	42.09	41.89	41.70	41.50	41.30	41.10	40.90	40.70	40.50	40.5
40.6	42.59	42.39	42.19	41.99	41.79	41.60	41.40	41.20	41.00	40.80	40.60	40.6
40.7	42.69	42.49	42.29	42.09	41.89	41.70	41.50	41.30	41.10	40.90	40.70	40.7
40.8	42.79	42.59	42.39	42.19	41.99	41.79	41.60	41.40	41.20	41.00	40.80	40.8
40.9	42.88	42.69	42.49	42.29	42.09	41.89	41.70	41.50	41.30	41.10	40.90	40.9
41	42.98	42.79	42.59	42.39	42.19	41.99	41.79	41.60	41.40	41.20	41.00	41
41.1	43.08	42.88	42.69	42.49	42.29	42.09	41.89	41.70	41.50	41.30	41.10	41.1
41.2	43.18	42.98	42.79	42.59	42.39	42.19	41.99	41.80	41.60	41.40	41.20	41.2
41.3	43.28	43.08	42.88	42.69	42.49	42.29	42.09	41.90	41.70	41.50	41.30	41.3
41.4	43.38	43.18	42.98	42.79	42.59	42.39	42.19	41.99	41.80	41.60	41.40	41.4
41.5	43.48	43.28	43.08	42.88	42.69	42.49	42.29	42.09	41.90	41.70	41.50	41.5
41.6	43.57	43.38	43.18	42.98	42.79	42.59	42.39	42.19	42.00	41.80	41.60	41.6
41.7	43.67	43.48	43.28	43.08	42.89	42.69	42.49	42.29	42.10	41.90	41.70	41.7
41.8	43.77	43.58	43.38	43.18	42.98	42.79	42.59	42.39	42.20	42.00	41.80	41.8
41.9	43.87	43.67	43.48	43.28	43.08	42.89	42.69	42.49	42.30	42.10	41.90	41.9
42	43.97	43.77	43.58	43.38	43.18	42.99	42.79	42.59	42.40	42.20	42.00	42
42.1	44.07	43.87	43.68	43.48	43.28	43.09	42.89	42.69	42.49	42.30	42.10	42.1
42.2	44.17	43.97	43.77	43.58	43.38	43.19	42.99	42.79	42.59	42.40	42.20	42.2
42.3	44.26	44.07	43.87	43.68	43.48	43.28	43.09	42.89	42.69	42.50	42.30	42.3
42.4	44.36	44.17	43.97	43.78	43.58	43.38	43.19	42.99	42.79	42.60	42.40	42.4
42.5	44.46	44.27	44.07	43.87	43.68	43.48	43.29	43.09	42.89	42.70	42.50	42.5
42.6	44.56	44.36	44.17	43.97	43.78	43.58	43.39	43.19	42.99	42.80	42.60	42.6
42.7	44.66	44.46	44.27	44.07	43.88	43.68	43.49	43.29	43.09	42.90	42.70	42.7
42.8	44.76	44.56	44.37	44.17	43.98	43.78	43.59	43.39	43.19	43.00	42.80	42.8
42.9	44.86	44.66	44.47	44.27	44.08	43.88	43.68	43.49	43.29	43.10	42.90	42.9
43	44.95	44.76	44.56	44.37	44.17	43.98	43.78	43.59	43.39	43.20	43.00	43
43.1	45.05	44.86	44.66	44.47	44.27	44.08	43.88	43.69	43.49	43.30	43.10	43.1
43.2	45.15	44.96	44.76	44.57	44.37	44.18	43.98	43.79	43.59	43.40	43.20	43.2
43.3	45.25	45.06	44.86	44.67	44.47	44.28	44.08	43.89	43.69	43.50	43.30	43.3
43.4	45.35	45.15	44.96	44.77	44.57	44.38	44.18	43.99	43.79	43.60	43.40	43.4
43.5	45.45	45.25	45.06	44.86	44.67	44.48	44.28	44.09	43.89	43.70	43.50	43.5
43.6	45.54	45.35	45.16	44.96	44.77	44.58	44.38	44.19	43.99	43.80	43.60	43.6
43.7	45.64	45.45	45.26	45.06	44.87	44.67	44.48	44.29	44.09	43.90	43.70	43.7
43.8	45.74	45.55	45.36	45.16	44.97	44.77	44.58	44.38	44.19	44.00	43.80	43.8
43.9	45.84	45.65	45.45	45.26	45.07	44.87	44.68	44.48	44.29	44.10	43.90	43.9
44	45.94	45.75	45.55	45.36	45.17	44.97	44.78	44.58	44.39	44.19	44.00	44
44.1	46.04	45.84	45.65	45.46	45.27	45.07	44.88	44.68	44.49	44.29	44.10	44.1
44.2	46.14	45.94	45.75	45.56	45.36	45.17	44.98	44.78	44.59	44.39	44.20	44.2
44.3	46.23	46.04	45.85	45.66	45.46	45.27	45.08	44.88	44.69	44.49	44.30	44.3
44.4	46.33	46.14	45.95	45.76	45.56	45.37	45.18	44.98	44.79	44.59	44.40	44.4
44.5	46.43	46.24	46.05	45.85	45.66	45.47	45.28	45.08	44.89	44.69	44.50	44.5
44.6	46.53	46.34	46.15	45.95	45.76	45.57	45.37	45.18	44.99	44.79	44.60	44.6
44.7	46.63	46.44	46.24	46.05	45.86	45.67	45.47	45.28	45.09	44.89	44.70	44.7
44.8	46.73	46.54	46.34	46.15	45.96	45.77	45.57	45.38	45.19	44.99	44.80	44.8
44.9	46.83	46.63	46.44	46.25	46.06	45.87	45.67	45.48	45.29	45.09	44.90	44.9
45	46.92	46.73	46.54	46.35	46.16	45.96	45.77	45.58	45.39	45.19	45.00	45



表 B.1 (续)

酒精度 % vol	酒精计温度 ℃										酒精度 % vol	
	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5		20
45	46.92	46.73	46.54	46.35	46.16	45.96	45.77	45.58	45.39	45.19	45.00	45
45.1	47.02	46.83	46.64	46.45	46.26	46.06	45.87	45.68	45.49	45.29	45.10	45.1
45.2	47.12	46.93	46.74	46.55	46.36	46.16	45.97	45.78	45.59	45.39	45.20	45.2
45.3	47.22	47.03	46.84	46.65	46.45	46.26	46.07	45.88	45.69	45.49	45.30	45.3
45.4	47.32	47.13	46.94	46.75	46.55	46.36	46.17	45.98	45.79	45.59	45.40	45.4
45.5	47.42	47.23	47.03	46.84	46.65	46.46	46.27	46.08	45.89	45.69	45.50	45.5
45.6	47.51	47.32	47.13	46.94	46.75	46.56	46.37	46.18	45.98	45.79	45.60	45.6
45.7	47.61	47.42	47.23	47.04	46.85	46.66	46.47	46.28	46.08	45.89	45.70	45.7
45.8	47.71	47.52	47.33	47.14	46.95	46.76	46.57	46.38	46.18	45.99	45.80	45.8
45.9	47.81	47.62	47.43	47.24	47.05	46.86	46.67	46.48	46.28	46.09	45.90	45.9
46	47.91	47.72	47.53	47.34	47.15	46.96	46.77	46.58	46.38	46.19	46.00	46
46.1	48.01	47.82	47.63	47.44	47.25	47.06	46.87	46.67	46.48	46.29	46.10	46.1
46.2	48.11	47.92	47.73	47.54	47.35	47.16	46.97	46.77	46.58	46.39	46.20	46.2
46.3	48.20	48.01	47.83	47.64	47.45	47.26	47.06	46.87	46.68	46.49	46.30	46.3
46.4	48.30	48.11	47.92	47.73	47.54	47.35	47.16	46.97	46.78	46.59	46.40	46.4
46.5	48.40	48.21	48.02	47.83	47.64	47.45	47.26	47.07	46.88	46.69	46.50	46.5
46.6	48.50	48.31	48.12	47.93	47.74	47.55	47.36	47.17	46.98	46.79	46.60	46.6
46.7	48.60	48.41	48.22	48.03	47.84	47.65	47.46	47.27	47.08	46.89	46.70	46.7
46.8	48.70	48.51	48.32	48.13	47.94	47.75	47.56	47.37	47.18	46.99	46.80	46.8
46.9	48.80	48.61	48.42	48.23	48.04	47.85	47.66	47.47	47.28	47.09	46.90	46.9
47	48.89	48.71	48.52	48.33	48.14	47.95	47.76	47.57	47.38	47.19	47.00	47
47.1	48.99	48.80	48.62	48.43	48.24	48.05	47.86	47.67	47.48	47.29	47.10	47.1
47.2	49.09	48.90	48.71	48.53	48.34	48.15	47.96	47.77	47.58	47.39	47.20	47.2
47.3	49.19	49.00	48.81	48.63	48.44	48.25	48.06	47.87	47.68	47.49	47.30	47.3
47.4	49.29	49.10	48.91	48.72	48.54	48.35	48.16	47.97	47.78	47.59	47.40	47.4
47.5	49.39	49.20	49.01	48.82	48.64	48.45	48.26	48.07	47.88	47.69	47.50	47.5
47.6	49.49	49.30	49.11	48.92	48.73	48.55	48.36	48.17	47.98	47.79	47.60	47.6
47.7	49.58	49.40	49.21	49.02	48.83	48.65	48.46	48.27	48.08	47.89	47.70	47.7
47.8	49.68	49.50	49.31	49.12	48.93	48.74	48.56	48.37	48.18	47.99	47.80	47.8
47.9	49.78	49.59	49.41	49.22	49.03	48.84	48.66	48.47	48.28	48.09	47.90	47.9
48	49.88	49.69	49.51	49.32	49.13	48.94	48.76	48.57	48.38	48.19	48.00	48
48.1	49.98	49.79	49.60	49.42	49.23	49.04	48.85	48.67	48.48	48.29	48.10	48.1
48.2	50.08	49.89	49.70	49.52	49.33	49.14	48.95	48.77	48.58	48.39	48.20	48.2
48.3	50.17	49.99	49.80	49.62	49.43	49.24	49.05	48.87	48.68	48.49	48.30	48.3
48.4	50.27	50.09	49.90	49.71	49.53	49.34	49.15	48.97	48.78	48.59	48.40	48.4
48.5	50.37	50.19	50.00	49.81	49.63	49.44	49.25	49.06	48.88	48.69	48.50	48.5
48.6	50.47	50.28	50.10	49.91	49.73	49.54	49.35	49.16	48.98	48.79	48.60	48.6
48.7	50.57	50.38	50.20	50.01	49.83	49.64	49.45	49.26	49.08	48.89	48.70	48.7
48.8	50.67	50.48	50.30	50.11	49.92	49.74	49.55	49.36	49.18	48.99	48.80	48.8
48.9	50.77	50.58	50.40	50.21	50.02	49.84	49.65	49.46	49.28	49.09	48.90	48.9
49	50.87	50.68	50.49	50.31	50.12	49.94	49.75	49.56	49.38	49.19	49.00	49
49.1	50.96	50.78	50.59	50.41	50.22	50.04	49.85	49.66	49.48	49.29	49.10	49.1
49.2	51.06	50.88	50.69	50.51	50.32	50.13	49.95	49.76	49.57	49.39	49.20	49.2
49.3	51.16	50.98	50.79	50.61	50.42	50.23	50.05	49.86	49.67	49.49	49.30	49.3
49.4	51.26	51.07	50.89	50.70	50.52	50.33	50.15	49.96	49.77	49.59	49.40	49.4
49.5	51.36	51.17	50.99	50.80	50.62	50.43	50.25	50.06	49.87	49.69	49.50	49.5
49.6	51.46	51.27	51.09	50.90	50.72	50.53	50.35	50.16	49.97	49.79	49.60	49.6
49.7	51.56	51.37	51.19	51.00	50.82	50.63	50.45	50.26	50.07	49.89	49.70	49.7
49.8	51.65	51.47	51.29	51.10	50.92	50.73	50.55	50.36	50.17	49.99	49.80	49.8
49.9	51.75	51.57	51.38	51.20	51.02	50.83	50.64	50.46	50.27	50.09	49.90	49.9
50	51.85	51.67	51.48	51.30	51.11	50.93	50.74	50.56	50.37	50.19	50.00	50

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃										酒精度 % vol	
	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5		20
50	51.85	51.67	51.48	51.30	51.11	50.93	50.74	50.56	50.37	50.19	50.00	50
50.1	51.95	51.77	51.58	51.40	51.21	51.03	50.84	50.66	50.47	50.29	50.10	50.1
50.2	52.05	51.86	51.68	51.50	51.31	51.13	50.94	50.76	50.57	50.39	50.20	50.2
50.3	52.15	51.96	51.78	51.60	51.41	51.23	51.04	50.86	50.67	50.49	50.30	50.3
50.4	52.25	52.06	51.88	51.70	51.51	51.33	51.14	50.96	50.77	50.59	50.40	50.4
50.5	52.34	52.16	51.98	51.79	51.61	51.43	51.24	51.06	50.87	50.69	50.50	50.5
50.6	52.44	52.26	52.08	51.89	51.71	51.53	51.34	51.16	50.97	50.79	50.60	50.6
50.7	52.54	52.36	52.18	51.99	51.81	51.62	51.44	51.26	51.07	50.89	50.70	50.7
50.8	52.64	52.46	52.27	52.09	51.91	51.72	51.54	51.36	51.17	50.99	50.80	50.8
50.9	52.74	52.56	52.37	52.19	52.01	51.82	51.64	51.45	51.27	51.09	50.90	50.9
51	52.84	52.66	52.47	52.29	52.11	51.92	51.74	51.55	51.37	51.19	51.00	51
51.1	52.94	52.75	52.57	52.39	52.21	52.02	51.84	51.65	51.47	51.29	51.10	51.1
51.2	53.03	52.85	52.67	52.49	52.30	52.12	51.94	51.75	51.57	51.38	51.20	51.2
51.3	53.13	52.95	52.77	52.59	52.40	52.22	52.04	51.85	51.67	51.48	51.30	51.3
51.4	53.23	53.05	52.87	52.69	52.50	52.32	52.14	51.95	51.77	51.58	51.40	51.4
51.5	53.33	53.15	52.97	52.78	52.60	52.42	52.24	52.05	51.87	51.68	51.50	51.5
51.6	53.43	53.25	53.07	52.88	52.70	52.52	52.34	52.15	51.97	51.78	51.60	51.6
51.7	53.53	53.35	53.17	52.98	52.80	52.62	52.44	52.25	52.07	51.88	51.70	51.7
51.8	53.63	53.45	53.26	53.08	52.90	52.72	52.53	52.35	52.17	51.98	51.80	51.8
51.9	53.73	53.54	53.36	53.18	53.00	52.82	52.63	52.45	52.27	52.08	51.90	51.9
52	53.82	53.64	53.46	53.28	53.10	52.92	52.73	52.55	52.37	52.18	52.00	52
52.1	53.92	53.74	53.56	53.38	53.20	53.02	52.83	52.65	52.47	52.28	52.10	52.1
52.2	54.02	53.84	53.66	53.48	53.30	53.11	52.93	52.75	52.57	52.38	52.20	52.2
52.3	54.12	53.94	53.76	53.58	53.40	53.21	53.03	52.85	52.67	52.48	52.30	52.3
52.4	54.22	54.04	53.86	53.68	53.50	53.31	53.13	52.95	52.77	52.58	52.39	52.4
52.5	54.32	54.14	53.96	53.78	53.59	53.41	53.23	53.05	52.87	52.68	52.50	52.5
52.6	54.42	54.24	54.06	53.88	53.69	53.51	53.33	53.15	52.97	52.78	52.60	52.6
52.7	54.52	54.34	54.15	53.97	53.79	53.61	53.43	53.25	53.07	52.88	52.70	52.7
52.8	54.61	54.43	54.25	54.07	53.89	53.71	53.53	53.35	53.17	52.98	52.80	52.8
52.9	54.71	54.53	54.35	54.17	53.99	53.81	53.63	53.45	53.27	53.08	52.90	52.9
53	54.81	54.63	54.45	54.27	54.09	53.91	53.73	53.55	53.36	53.18	53.00	53
53.1	54.91	54.73	54.55	54.37	54.19	54.01	53.83	53.65	53.46	53.28	53.10	53.1
53.2	55.01	54.83	54.65	54.47	54.29	54.11	53.93	53.75	53.56	53.38	53.20	53.2
53.3	55.11	54.93	54.75	54.57	54.39	54.21	54.03	53.85	53.66	53.48	53.30	53.3
53.4	55.21	55.03	54.85	54.67	54.49	54.31	54.13	53.95	53.76	53.58	53.40	53.4
53.5	55.31	55.13	54.95	54.77	54.59	54.41	54.23	54.04	53.86	53.68	53.50	53.5
53.6	55.40	55.23	55.05	54.87	54.69	54.51	54.33	54.14	53.96	53.78	53.60	53.6
53.7	55.50	55.32	55.14	54.97	54.79	54.61	54.42	54.24	54.06	53.88	53.70	53.7
53.8	55.60	55.42	55.24	55.06	54.88	54.70	54.52	54.34	54.16	53.98	53.80	53.8
53.9	55.70	55.52	55.34	55.16	54.98	54.80	54.62	54.44	54.26	54.08	53.90	53.9
54	55.80	55.62	55.44	55.26	55.08	54.90	54.72	54.54	54.36	54.18	54.00	54
54.1	55.90	55.72	55.54	55.36	55.18	55.00	54.82	54.64	54.46	54.28	54.10	54.1
54.2	56.00	55.82	55.64	55.46	55.28	55.10	54.92	54.74	54.56	54.38	54.20	54.2
54.3	56.10	55.92	55.74	55.56	55.38	55.20	55.02	54.84	54.66	54.48	54.30	54.3
54.4	56.19	56.02	55.84	55.66	55.48	55.30	55.12	54.94	54.76	54.58	54.40	54.4
54.5	56.29	56.12	55.94	55.76	55.58	55.40	55.22	55.04	54.86	54.68	54.50	54.5
54.6	56.39	56.21	56.04	55.86	55.68	55.50	55.32	55.14	54.96	54.78	54.60	54.6
54.7	56.49	56.31	56.14	55.96	55.78	55.60	55.42	55.24	55.06	54.88	54.70	54.7
54.8	56.59	56.41	56.23	56.06	55.88	55.70	55.52	55.34	55.16	54.98	54.80	54.8
54.9	56.69	56.51	56.33	56.16	55.98	55.80	55.62	55.44	55.26	55.08	54.90	54.9
55	56.79	56.61	56.43	56.25	56.08	55.90	55.72	55.54	55.36	55.18	55.00	55

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃										酒精度 % vol	
	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5		20
55	56.79	56.61	56.43	56.25	56.08	55.90	55.72	55.54	55.36	55.18	55.00	55
55.1	56.89	56.71	56.53	56.35	56.18	56.00	55.82	55.64	55.46	55.28	55.10	55.1
55.2	56.98	56.81	56.63	56.45	56.27	56.10	55.92	55.74	55.56	55.38	55.20	55.2
55.3	57.08	56.91	56.73	56.55	56.37	56.20	56.02	55.84	55.66	55.48	55.30	55.3
55.4	57.18	57.01	56.83	56.65	56.47	56.30	56.12	55.94	55.76	55.58	55.40	55.4
55.5	57.28	57.10	56.93	56.75	56.57	56.39	56.22	56.04	55.86	55.68	55.50	55.5
55.6	57.38	57.20	57.03	56.85	56.67	56.49	56.32	56.14	55.96	55.78	55.60	55.6
55.7	57.48	57.30	57.13	56.95	56.77	56.59	56.42	56.24	56.06	55.88	55.70	55.7
55.8	57.58	57.40	57.22	57.05	56.87	56.69	56.51	56.34	56.16	55.98	55.80	55.8
55.9	57.68	57.50	57.32	57.15	56.97	56.79	56.61	56.44	56.26	56.08	55.90	55.9
56	57.77	57.60	57.42	57.25	57.07	56.89	56.71	56.54	56.36	56.18	56.00	56
56.1	57.87	57.70	57.52	57.35	57.17	56.99	56.81	56.64	56.46	56.28	56.10	56.1
56.2	57.97	57.80	57.62	57.44	57.27	57.09	56.91	56.74	56.56	56.38	56.20	56.2
56.3	58.07	57.90	57.72	57.54	57.37	57.19	57.01	56.83	56.66	56.48	56.30	56.3
56.4	58.17	57.99	57.82	57.64	57.47	57.29	57.11	56.93	56.76	56.58	56.40	56.4
56.5	58.27	58.09	57.92	57.74	57.57	57.39	57.21	57.03	56.86	56.68	56.50	56.5
56.6	58.37	58.19	58.02	57.84	57.66	57.49	57.31	57.13	56.96	56.78	56.60	56.6
56.7	58.47	58.29	58.12	57.94	57.76	57.59	57.41	57.23	57.06	56.88	56.70	56.7
56.8	58.57	58.39	58.22	58.04	57.86	57.69	57.51	57.33	57.16	56.98	56.80	56.8
56.9	58.66	58.49	58.31	58.14	57.96	57.79	57.61	57.43	57.26	57.08	56.90	56.9
57	58.76	58.59	58.41	58.24	58.06	57.89	57.71	57.53	57.36	57.18	57.00	57
57.1	58.86	58.69	58.51	58.34	58.16	57.99	57.81	57.63	57.46	57.28	57.10	57.1
57.2	58.96	58.79	58.61	58.44	58.26	58.08	57.91	57.73	57.55	57.38	57.20	57.2
57.3	59.06	58.89	58.71	58.54	58.36	58.18	58.01	57.83	57.65	57.48	57.30	57.3
57.4	59.16	58.98	58.81	58.63	58.46	58.28	58.11	57.93	57.75	57.58	57.40	57.4
57.5	59.26	59.08	58.91	58.73	58.56	58.38	58.21	58.03	57.85	57.68	57.50	57.5
57.6	59.36	59.18	59.01	58.83	58.66	58.48	58.31	58.13	57.95	57.78	57.60	57.6
57.7	59.46	59.28	59.11	58.93	58.76	58.58	58.41	58.23	58.05	57.88	57.70	57.7
57.8	59.55	59.38	59.21	59.03	58.86	58.68	58.51	58.33	58.15	57.98	57.80	57.8
57.9	59.65	59.48	59.30	59.13	58.96	58.78	58.61	58.43	58.25	58.08	57.90	57.9
58	59.75	59.58	59.40	59.23	59.06	58.88	58.70	58.53	58.35	58.18	58.00	58
58.1	59.85	59.68	59.50	59.33	59.15	58.98	58.80	58.63	58.45	58.28	58.10	58.1
58.2	59.95	59.78	59.60	59.43	59.25	59.08	58.90	58.73	58.55	58.38	58.20	58.2
58.3	60.05	59.87	59.70	59.53	59.35	59.18	59.00	58.83	58.65	58.48	58.30	58.3
58.4	60.15	59.97	59.80	59.63	59.45	59.28	59.10	58.93	58.75	58.58	58.40	58.4
58.5	60.25	60.07	59.90	59.73	59.55	59.38	59.20	59.03	58.85	58.68	58.50	58.5
58.6	60.34	60.17	60.00	59.82	59.65	59.48	59.30	59.13	58.95	58.78	58.60	58.6
58.7	60.44	60.27	60.10	59.92	59.75	59.58	59.40	59.23	59.05	58.88	58.70	58.7
58.8	60.54	60.37	60.20	60.02	59.85	59.68	59.50	59.33	59.15	58.98	58.80	58.8
58.9	60.64	60.47	60.30	60.12	59.95	59.77	59.60	59.43	59.25	59.08	58.90	58.9
59	60.74	60.57	60.39	60.22	60.05	59.87	59.70	59.53	59.35	59.18	59.00	59
59.1	60.84	60.67	60.49	60.32	60.15	59.97	59.80	59.63	59.45	59.28	59.10	59.1
59.2	60.94	60.77	60.59	60.42	60.25	60.07	59.90	59.72	59.55	59.38	59.20	59.2
59.3	61.04	60.86	60.69	60.52	60.35	60.17	60.00	59.82	59.65	59.48	59.30	59.3
59.4	61.14	60.96	60.79	60.62	60.45	60.27	60.10	59.92	59.75	59.58	59.40	59.4
59.5	61.23	61.06	60.89	60.72	60.54	60.37	60.20	60.02	59.85	59.68	59.50	59.5
59.6	61.33	61.16	60.99	60.82	60.64	60.47	60.30	60.12	59.95	59.77	59.60	59.6
59.7	61.43	61.26	61.09	60.92	60.74	60.57	60.40	60.22	60.05	59.87	59.70	59.7
59.8	61.53	61.36	61.19	61.02	60.84	60.67	60.50	60.32	60.15	59.97	59.80	59.8
59.9	61.63	61.46	61.29	61.11	60.94	60.77	60.60	60.42	60.25	60.07	59.90	59.9
60	61.73	61.56	61.39	61.21	61.04	60.87	60.70	60.52	60.35	60.17	60.00	60

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	
60	61.73	61.56	61.39	61.21	61.04	60.87	60.70	60.52	60.35	60.17	60.00	60
60.1	61.83	61.66	61.49	61.31	61.14	60.97	60.80	60.62	60.45	60.27	60.10	60.1
60.2	61.93	61.76	61.58	61.41	61.24	61.07	60.89	60.72	60.55	60.37	60.20	60.2
60.3	62.03	61.85	61.68	61.51	61.34	61.17	60.99	60.82	60.65	60.47	60.30	60.3
60.4	62.12	61.95	61.78	61.61	61.44	61.27	61.09	60.92	60.75	60.57	60.40	60.4
60.5	62.22	62.05	61.88	61.71	61.54	61.37	61.19	61.02	60.85	60.67	60.50	60.5
60.6	62.32	62.15	61.98	61.81	61.64	61.47	61.29	61.12	60.95	60.77	60.60	60.6
60.7	62.42	62.25	62.08	61.91	61.74	61.56	61.39	61.22	61.05	60.87	60.70	60.7
60.8	62.52	62.35	62.18	62.01	61.84	61.66	61.49	61.32	61.15	60.97	60.80	60.8
60.9	62.62	62.45	62.28	62.11	61.94	61.76	61.59	61.42	61.25	61.07	60.90	60.9
61	62.72	62.55	62.38	62.21	62.03	61.86	61.69	61.52	61.35	61.17	61.00	61
61.1	62.82	62.65	62.48	62.31	62.13	61.96	61.79	61.62	61.45	61.27	61.10	61.1
61.2	62.92	62.75	62.58	62.40	62.23	62.06	61.89	61.72	61.55	61.37	61.20	61.2
61.3	63.01	62.84	62.67	62.50	62.33	62.16	61.99	61.82	61.65	61.47	61.30	61.3
61.4	63.11	62.94	62.77	62.60	62.43	62.26	62.09	61.92	61.75	61.57	61.40	61.4
61.5	63.21	63.04	62.87	62.70	62.53	62.36	62.19	62.02	61.85	61.67	61.50	61.5
61.6	63.31	63.14	62.97	62.80	62.63	62.46	62.29	62.12	61.94	61.77	61.60	61.6
61.7	63.41	63.24	63.07	62.90	62.73	62.56	62.39	62.22	62.04	61.87	61.70	61.7
61.8	63.51	63.34	63.17	63.00	62.83	62.66	62.49	62.32	62.14	61.07	61.80	61.8
61.9	63.61	63.44	63.27	63.10	62.93	62.76	62.59	62.42	62.24	62.07	61.90	61.9
62	63.71	63.54	63.37	63.20	63.03	62.86	62.69	62.52	62.34	62.17	62.00	62
62.1	63.81	63.64	63.47	63.30	63.13	62.96	62.79	62.62	62.44	62.27	62.10	62.1
62.2	63.90	63.74	63.57	63.40	63.23	63.06	62.89	62.71	62.54	62.37	62.20	62.2
62.3	64.00	63.83	63.67	63.50	63.33	63.16	62.99	62.81	62.64	62.47	62.30	62.3
62.4	64.10	63.93	63.76	63.60	63.43	63.26	63.08	62.91	62.74	62.57	62.40	62.4
62.5	64.20	64.03	63.86	63.69	63.52	63.35	63.18	63.01	62.84	62.67	62.50	62.5
62.6	64.30	64.13	63.96	63.79	63.62	63.45	63.28	63.11	62.94	62.77	62.60	62.6
62.7	64.40	64.23	64.06	63.89	63.72	63.55	63.38	63.21	63.04	62.87	62.70	62.7
62.8	64.50	64.33	64.16	63.99	63.82	63.65	63.48	63.31	63.14	62.97	62.80	62.8
62.9	64.60	64.43	64.26	64.09	63.92	63.75	63.58	63.41	63.24	63.07	62.90	62.9
63	64.70	64.53	64.36	64.19	64.02	63.85	63.68	63.51	63.34	63.17	63.00	63
63.1	64.79	64.63	64.46	64.29	64.12	63.95	63.78	63.61	63.44	63.27	63.10	63.1
63.2	64.89	64.73	64.56	64.39	64.22	64.05	63.88	63.71	63.54	63.37	63.20	63.2
63.3	64.99	64.82	64.66	64.49	64.32	64.15	63.98	63.81	63.64	63.47	63.30	63.3
63.4	65.09	64.92	64.76	64.59	64.42	64.25	64.08	63.91	63.74	63.57	63.40	63.4
63.5	65.19	65.02	64.85	64.69	64.52	64.35	64.18	64.01	63.84	63.67	63.50	63.5
63.6	65.29	65.12	64.95	64.79	64.62	64.45	64.28	64.11	63.94	63.77	63.60	63.6
63.7	65.39	65.22	65.05	64.88	64.72	64.55	64.38	64.21	64.04	63.87	63.70	63.7
63.8	65.49	65.32	65.15	64.98	64.82	64.65	64.48	64.31	64.14	63.97	63.80	63.8
63.9	65.58	65.42	65.25	65.08	64.92	64.75	64.58	64.41	64.24	64.07	63.90	63.9
64	65.68	65.52	65.35	65.18	65.01	64.85	64.68	64.51	64.34	64.17	64.00	64
64.1	65.78	65.62	65.45	65.28	65.11	64.95	64.78	64.61	64.44	64.27	64.10	64.1
64.2	65.88	65.71	65.55	65.38	65.21	65.05	64.88	64.71	64.54	64.37	64.20	64.2
64.3	65.98	65.81	65.65	65.48	65.31	65.14	64.98	64.81	64.64	64.47	64.30	64.3
64.4	66.08	65.91	65.75	65.58	65.41	65.24	65.08	64.91	64.74	64.57	64.40	64.4
64.5	66.18	66.01	65.85	65.68	65.51	65.34	65.18	65.01	64.84	64.67	64.50	64.5
64.6	66.28	66.11	65.94	65.78	65.61	65.44	65.27	65.11	64.94	64.77	64.60	64.6
64.7	66.38	66.21	66.04	65.88	65.71	65.54	65.37	65.21	65.04	64.87	64.71	64.7
64.8	66.47	66.31	66.14	65.98	65.81	65.64	65.47	65.31	65.14	64.97	64.80	64.8
64.9	66.57	66.41	66.24	66.08	65.91	65.74	65.57	65.41	65.24	65.07	64.90	64.9
65	66.67	66.51	66.34	66.17	66.01	65.84	65.67	65.51	65.34	65.17	65.00	65

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃										酒精度 % vol	
	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5		20
65	66.67	66.51	66.34	66.17	66.01	65.84	65.67	65.51	65.34	65.17	65.00	65
65.1	66.77	66.61	66.44	66.27	66.11	65.94	65.77	65.61	65.44	65.27	65.10	65.1
65.2	66.87	66.70	66.54	66.37	66.21	66.04	65.87	65.70	65.54	65.37	65.20	65.2
65.3	66.97	66.80	66.64	66.47	66.31	66.14	65.97	65.80	65.64	65.47	65.30	65.3
65.4	67.07	66.90	66.74	66.57	66.40	66.24	66.07	65.90	65.74	65.57	65.40	65.4
65.5	67.17	67.00	66.84	66.67	66.50	66.34	66.17	66.00	65.84	65.67	65.50	65.5
65.6	67.27	67.10	66.94	66.77	66.60	66.44	66.27	66.10	65.94	65.77	65.60	65.6
65.7	67.36	67.20	67.03	66.87	66.70	66.54	66.37	66.20	66.04	65.87	65.70	65.7
65.8	67.46	67.30	67.13	66.97	66.80	66.64	66.47	66.30	66.14	65.97	65.80	65.8
65.9	67.56	67.40	67.23	67.07	66.90	66.74	66.57	66.40	66.24	66.07	65.90	65.9
66	67.66	67.50	67.33	67.17	67.00	66.83	66.67	66.50	66.33	66.17	66.00	66
66.1	67.76	67.60	67.43	67.27	67.10	66.93	66.77	66.60	66.43	66.27	66.10	66.1
66.2	67.86	67.69	67.53	67.36	67.20	67.03	66.87	66.70	66.53	66.37	66.20	66.2
66.3	67.96	67.79	67.63	67.46	67.30	67.13	66.97	66.80	66.63	66.47	66.30	66.3
66.4	68.06	67.89	67.73	67.56	67.40	67.23	67.07	66.90	66.73	66.57	66.40	66.4
66.5	68.15	67.99	67.83	67.66	67.50	67.33	67.17	67.00	66.83	66.67	66.50	66.5
66.6	68.25	68.09	67.93	67.76	67.60	67.43	67.27	67.10	66.93	66.77	66.60	66.6
66.7	68.35	68.19	68.02	67.86	67.70	67.53	67.37	67.20	67.03	66.87	66.70	66.7
66.8	68.45	68.29	68.12	67.96	67.79	67.63	67.46	67.30	67.13	66.97	66.80	66.8
66.9	68.55	68.39	68.22	68.06	67.89	67.73	67.56	67.40	67.23	67.07	66.90	66.9
67	68.65	68.49	68.32	68.16	67.99	67.83	67.66	67.50	67.33	67.17	67.00	67
67.1	68.75	68.58	68.42	68.26	68.09	67.93	67.76	67.60	67.43	67.27	67.10	67.1
67.2	68.85	68.68	68.52	68.36	68.19	68.03	67.86	67.70	67.53	67.37	67.20	67.2
67.3	68.95	68.78	68.62	68.46	68.29	68.13	67.96	67.80	67.63	67.47	67.30	67.3
67.4	69.04	68.88	68.72	68.55	68.39	68.23	68.06	67.90	67.73	67.57	67.40	67.4
67.5	69.14	68.98	68.82	68.65	68.49	68.33	68.16	68.00	67.83	67.67	67.50	67.5
67.6	69.24	69.08	68.92	68.75	68.59	68.43	68.26	68.10	67.93	67.77	67.60	67.6
67.7	69.34	69.18	69.02	68.85	68.69	68.52	68.36	68.20	68.03	67.87	67.70	67.7
67.8	69.44	69.28	69.11	68.95	68.79	68.62	68.46	68.30	68.13	67.97	67.80	67.8
67.9	69.54	69.38	69.21	69.05	68.89	68.72	68.56	68.40	68.23	68.07	67.90	67.9
68	69.64	69.47	69.31	69.15	68.99	68.82	68.66	68.49	68.33	68.17	68.00	68
68.1	69.74	69.57	69.41	69.25	69.09	68.92	68.76	68.59	68.43	68.27	68.10	68.1
68.2	69.83	69.67	69.51	69.35	69.18	69.02	68.86	68.69	68.53	68.37	68.20	68.2
68.3	69.93	69.77	69.61	69.45	69.28	69.12	68.96	68.79	68.63	68.46	68.30	68.3
68.4	70.03	69.87	69.71	69.55	69.38	69.22	69.06	68.89	68.73	68.56	68.40	68.4
68.5	70.13	69.97	69.81	69.65	69.48	69.32	69.16	68.99	68.83	68.66	68.50	68.5
68.6	70.23	70.07	69.91	69.74	69.58	69.42	69.26	69.09	68.93	68.76	68.60	68.6
68.7	70.33	70.17	70.01	69.84	69.68	69.52	69.36	69.19	69.03	68.86	68.70	68.7
68.8	70.43	70.27	70.10	69.94	69.78	69.62	69.46	69.29	69.13	68.96	68.80	68.8
68.9	70.53	70.37	70.20	70.04	69.88	69.72	69.55	69.39	69.23	69.06	68.90	68.9
69	70.62	70.46	70.30	70.14	69.98	69.82	69.65	69.49	69.33	69.16	69.00	69
69.1	70.72	70.56	70.40	70.24	70.08	69.92	69.75	69.59	69.43	69.26	69.10	69.1
69.2	70.82	70.66	70.50	70.34	70.18	70.02	69.85	69.69	69.53	69.36	69.20	69.2
69.3	70.92	70.76	70.60	70.44	70.28	70.11	69.95	69.79	69.63	69.46	69.30	69.3
69.4	71.02	70.86	70.70	70.54	70.38	70.21	70.05	69.89	69.73	69.56	69.40	69.4
69.5	71.12	70.96	70.80	70.64	70.48	70.31	70.15	69.99	69.83	69.66	69.50	69.5
69.6	71.22	71.06	70.90	70.74	70.57	70.41	70.25	70.09	69.93	69.76	69.60	69.6
69.7	71.32	71.16	71.00	70.84	70.67	70.51	70.35	70.19	70.03	69.86	69.70	69.7
69.8	71.42	71.26	71.09	70.93	70.77	70.61	70.45	70.29	70.13	69.96	69.80	69.8
69.9	71.51	71.35	71.19	71.03	70.87	70.71	70.55	70.39	70.23	70.06	69.90	69.9
70	71.61	71.45	71.29	71.13	70.97	70.81	70.65	70.49	70.33	70.16	70.00	70

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	
18	18.00	17.86	17.72	17.57	17.43	17.29	17.14	17.00	16.86	16.71	16.57	18
18.1	18.10	17.93	17.81	17.67	17.53	17.38	17.24	17.09	16.95	16.81	16.66	18.1
18.2	18.20	18.06	17.91	17.77	17.62	17.48	17.34	17.19	17.04	16.90	16.75	18.2
18.3	18.30	18.16	18.01	17.87	17.72	17.58	17.43	17.29	17.14	16.99	16.85	18.3
18.4	18.40	18.26	18.11	17.96	17.82	17.67	17.53	17.38	17.23	17.09	16.94	18.4
18.5	18.50	18.35	18.21	18.06	17.92	17.77	17.62	17.48	17.33	17.18	17.03	18.5
18.6	18.60	18.45	18.31	18.16	18.01	17.87	17.72	17.57	17.42	17.28	17.13	18.6
18.7	18.70	18.55	18.41	18.26	18.11	17.96	17.82	17.67	17.52	17.37	17.22	18.7
18.8	18.80	18.65	18.50	18.36	18.21	18.06	17.91	17.76	17.61	17.46	17.32	18.8
18.9	18.90	18.75	18.60	18.45	18.31	18.16	18.01	17.86	17.71	17.56	17.41	18.9
19	19.00	18.85	18.70	18.55	18.40	18.25	18.10	17.95	17.80	17.65	17.50	19
19.1	19.10	18.95	18.80	18.65	18.50	18.35	18.20	18.05	17.90	17.75	17.60	19.1
19.2	19.20	19.05	18.90	18.75	18.60	18.45	18.30	18.14	17.99	17.84	17.69	19.2
19.3	19.30	19.15	19.00	18.85	18.69	18.54	18.39	18.24	18.09	17.94	17.78	19.3
19.4	19.40	19.25	19.10	18.94	18.79	18.64	18.49	18.34	18.18	18.03	17.88	19.4
19.5	19.50	19.35	19.19	19.04	18.89	18.74	18.58	18.43	18.28	18.13	17.97	19.5
19.6	19.60	19.45	19.29	19.14	18.99	18.83	18.68	18.53	18.37	18.22	18.07	19.6
19.7	19.70	19.55	19.39	19.24	19.08	18.93	18.78	18.62	18.48	18.31	18.16	19.7
19.8	19.80	19.65	19.49	19.34	19.18	19.03	18.87	18.72	18.56	18.41	18.25	19.8
19.9	19.90	19.74	19.59	19.43	19.28	19.12	18.97	18.81	18.66	18.50	18.35	19.9
20	20.00	19.84	19.69	19.53	19.38	19.22	19.06	18.91	18.75	18.60	18.44	20
20.1	20.10	19.94	19.79	19.63	19.47	19.32	19.16	19.00	18.85	18.69	18.53	20.1
20.2	20.20	20.04	19.89	19.73	19.57	19.41	19.26	19.10	18.94	18.79	18.63	20.2
20.3	20.30	20.14	19.98	19.83	19.67	19.51	19.35	19.20	19.04	18.88	18.72	20.3
20.4	20.40	20.24	20.08	19.92	19.77	19.61	19.45	19.29	19.13	18.97	18.82	20.4
20.5	20.50	20.34	20.18	20.02	19.86	19.70	19.55	19.39	19.23	19.07	18.91	20.5
20.6	20.60	20.44	20.28	20.12	19.96	19.80	19.64	19.48	19.32	19.16	19.00	20.6
20.7	20.70	20.54	20.38	20.22	20.06	19.90	19.74	19.58	19.42	19.26	19.10	20.7
20.8	20.80	20.64	20.48	20.32	20.16	20.00	19.83	19.67	19.51	19.35	19.19	20.8
20.9	20.90	20.74	20.58	20.41	20.25	20.09	19.93	19.77	19.61	19.45	19.29	20.9
21	21.00	20.84	20.68	20.51	20.35	20.19	20.03	19.87	19.70	19.54	19.38	21
21.1	21.10	20.94	20.77	20.61	20.45	20.29	20.12	19.96	19.80	19.64	19.47	21.1
21.2	21.20	21.04	20.87	20.71	20.55	20.38	20.22	20.06	19.89	19.73	19.57	21.2
21.3	21.30	21.14	20.97	20.81	20.64	20.48	20.32	20.15	19.99	19.83	19.66	21.3
21.4	21.40	21.23	21.07	20.91	20.74	20.58	20.41	20.25	20.08	19.92	19.76	21.4
21.5	21.50	21.33	21.17	21.00	20.84	20.67	20.51	20.34	20.18	20.02	19.85	21.5
21.6	21.60	21.43	21.27	21.10	20.94	20.77	20.61	20.44	20.28	20.11	19.95	21.6
21.7	21.70	21.53	21.37	21.20	21.03	20.87	20.70	20.54	20.37	20.21	20.04	21.7
21.8	21.80	21.63	21.47	21.30	21.13	20.96	20.80	20.63	20.47	20.30	20.13	21.8
21.9	21.90	21.73	21.56	21.40	21.23	21.06	20.89	20.73	20.56	20.39	20.23	21.9
22	22.00	21.83	21.66	21.49	21.33	21.16	20.99	20.82	20.66	20.49	20.32	22
22.1	22.10	21.93	21.76	21.59	21.42	21.26	21.09	20.92	20.75	20.58	20.42	22.1
22.2	22.20	22.03	21.86	21.69	21.52	21.35	21.18	21.02	20.85	20.68	20.51	22.2
22.3	22.30	22.13	21.96	21.79	21.62	21.45	21.28	21.11	20.94	20.77	20.61	22.3
22.4	22.40	22.23	22.06	21.89	21.72	21.55	21.38	21.21	21.04	20.87	20.70	22.4
22.5	22.50	22.33	22.16	21.99	21.81	21.64	21.47	21.30	21.13	20.96	20.80	22.5
22.6	22.60	22.43	22.26	22.08	21.91	21.74	21.57	21.40	21.23	21.06	20.89	22.6
22.7	22.70	22.53	22.35	22.18	22.01	21.84	21.67	21.50	21.33	21.15	20.98	22.7
22.8	22.80	22.63	22.45	22.28	22.11	21.94	21.76	21.59	21.42	21.25	21.08	22.8
22.9	22.90	22.73	22.55	22.38	22.21	22.03	21.86	21.69	21.52	21.35	21.17	22.9
23	23.00	22.83	22.65	22.48	22.30	22.13	21.96	21.78	21.61	21.44	21.27	23
23.1	23.10	22.92	22.75	22.58	22.40	22.23	22.05	21.88	21.71	21.54	21.36	23.1
23.2	23.20	23.02	22.85	22.67	22.50	22.33	22.15	21.98	21.80	21.63	21.46	23.2
23.3	23.30	23.12	22.95	22.77	22.60	22.42	22.25	22.07	21.90	21.73	21.55	23.3
23.4	23.40	23.22	23.05	22.87	22.70	22.52	22.34	22.17	22.00	21.82	21.65	23.4
23.5	23.50	23.32	23.15	22.97	22.79	22.62	22.44	22.27	22.09	21.92	21.74	23.5
23.6	23.60	23.42	23.24	23.07	22.89	22.71	22.54	22.36	22.19	22.01	21.84	23.6
23.7	23.70	23.52	23.34	23.17	22.99	22.81	22.64	22.46	22.28	22.11	21.93	23.7
23.8	23.80	23.62	23.44	23.26	23.09	22.91	22.73	22.56	22.38	22.20	22.03	23.8
23.9	23.90	23.72	23.54	23.36	23.18	23.01	22.83	22.65	22.48	22.30	22.12	23.9
24	24.00	23.82	23.64	23.46	23.28	23.10	22.93	22.75	22.57	22.39	22.22	24
24.1	24.10	23.92	23.74	23.56	23.38	23.20	23.02	22.85	22.67	22.49	22.31	24.1
24.2	24.20	24.02	23.84	23.66	23.48	23.30	23.12	22.94	22.76	22.59	22.41	24.2
24.3	24.30	24.12	23.94	23.76	23.58	23.40	23.22	23.04	22.86	22.68	22.50	24.3
24.4	24.40	24.22	24.04	23.86	23.67	23.49	23.31	23.14	22.96	22.78	22.60	24.4
24.5	24.50	24.32	24.14	23.95	23.77	23.59	23.41	23.23	23.05	22.87	22.69	24.5
24.6	24.60	24.42	24.23	24.05	23.87	23.69	23.51	23.33	23.15	22.97	22.79	24.6
24.7	24.70	24.52	24.33	24.15	23.97	23.79	23.61	23.43	23.24	23.06	22.88	24.7
24.8	24.80	24.62	24.43	24.25	24.07	23.89	23.70	23.52	23.34	23.16	22.98	24.8
24.9	24.90	24.72	24.53	24.35	24.17	23.98	23.80	23.62	23.4	23.26	23.0	24.9

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	
25	25.00	24.82	24.63	24.45	24.26	24.08	23.90	23.72	23.53	23.35	23.17	25
25.1	25.10	24.91	24.73	24.55	24.36	24.18	24.00	23.81	23.63	23.45	23.27	25.1
25.2	25.20	25.01	24.83	24.64	24.46	24.28	24.09	23.91	23.73	23.54	23.36	25.2
25.3	25.30	25.11	24.93	24.74	24.56	24.37	24.19	24.01	23.82	23.64	23.46	25.3
25.4	25.40	25.21	25.03	24.84	24.66	24.47	24.29	24.10	23.92	23.74	23.55	25.4
25.5	25.50	25.31	25.13	24.94	24.75	24.57	24.39	24.20	24.02	23.83	23.65	25.5
25.6	25.60	25.41	25.23	25.04	24.85	24.67	24.48	24.30	24.11	23.93	23.75	25.6
25.7	25.70	25.51	25.32	25.14	24.95	24.77	24.58	24.39	24.21	24.03	23.84	25.7
25.8	25.80	25.61	25.42	25.24	25.05	24.86	24.68	24.49	24.31	24.12	23.94	25.8
25.9	25.90	25.71	25.52	25.34	25.15	24.96	24.78	24.59	24.40	24.22	24.03	25.9
26	26.00	25.81	25.62	25.43	25.25	25.06	24.87	24.69	24.50	24.31	24.13	26
26.1	26.10	25.91	25.72	25.53	25.35	25.16	24.97	24.78	24.60	24.41	24.23	26.1
26.2	26.20	26.01	25.82	25.63	25.44	25.26	25.07	24.88	24.69	24.51	24.32	26.2
26.3	26.30	26.11	25.92	25.73	25.54	25.35	25.17	24.98	24.79	24.60	24.42	26.3
26.4	26.40	26.21	26.02	25.83	25.64	25.45	25.26	25.08	24.89	24.70	24.51	26.4
26.5	26.50	26.31	26.12	25.93	25.74	25.55	25.36	25.17	24.98	24.80	24.61	26.5
26.6	26.60	26.41	26.22	26.03	25.84	25.65	25.46	25.27	25.08	24.89	24.71	26.6
26.7	26.70	26.51	26.32	26.13	25.94	25.75	25.56	25.37	25.18	24.99	24.80	26.7
26.8	26.80	26.61	26.42	26.23	26.03	25.84	25.65	25.47	25.28	25.09	24.90	26.8
26.9	26.90	26.71	26.52	26.32	26.13	25.94	25.75	25.56	25.37	25.18	25.00	26.9
27	27.00	26.81	26.62	26.42	26.23	26.04	25.85	25.66	25.47	25.28	25.09	27
27.1	27.10	26.91	26.71	26.52	26.33	26.14	25.95	25.76	25.57	25.38	25.19	27.1
27.2	27.20	27.01	26.81	26.62	26.43	26.24	26.05	25.86	25.67	25.48	25.29	27.2
27.3	27.30	27.11	26.91	26.72	26.53	26.34	26.14	25.95	25.76	25.57	25.38	27.3
27.4	27.40	27.21	27.01	26.82	26.63	26.43	26.24	26.05	25.86	25.67	25.48	27.4
27.5	27.50	27.31	27.11	26.92	26.73	26.53	26.34	26.15	25.96	25.77	25.58	27.5
27.6	27.60	27.41	27.21	27.02	26.82	26.63	26.44	26.25	26.05	25.86	25.67	27.6
27.7	27.70	27.51	27.31	27.12	26.92	26.73	26.54	26.34	26.15	25.96	25.77	27.7
27.8	27.80	27.60	27.41	27.22	27.02	26.83	26.63	26.44	26.25	26.06	25.87	27.8
27.9	27.90	27.70	27.51	27.31	27.12	26.93	26.73	26.54	26.35	26.16	25.96	27.9
28	28.00	27.80	27.61	27.41	27.22	27.03	26.83	26.64	26.45	26.25	26.06	28
28.1	28.10	27.90	27.71	27.51	27.32	27.12	26.93	26.74	26.54	26.35	26.16	28.1
28.2	28.20	28.00	27.81	27.61	27.42	27.22	27.03	26.83	26.64	26.45	26.25	28.2
28.3	28.30	28.10	27.91	27.71	27.52	27.32	27.13	26.93	26.74	26.54	26.35	28.3
28.4	28.40	28.20	28.01	27.81	27.61	27.42	27.22	27.03	26.84	26.64	26.45	28.4
28.5	28.50	28.30	28.11	27.91	27.71	27.52	27.32	27.13	26.93	26.74	26.55	28.5
28.6	28.60	28.40	28.21	28.01	27.81	27.62	27.42	27.23	27.03	26.84	26.64	28.6
28.7	28.70	28.50	28.30	28.11	27.91	27.72	27.52	27.32	27.13	26.94	26.74	28.7
28.8	28.80	28.60	28.40	28.21	28.01	27.81	27.62	27.42	27.23	27.03	26.84	28.8
28.9	28.90	28.70	28.50	28.31	28.11	27.91	27.72	27.52	27.33	27.13	26.94	28.9
29	29.00	28.80	28.60	28.41	28.21	28.01	27.82	27.62	27.42	27.23	27.03	29
29.1	29.10	28.90	28.70	28.51	28.31	28.11	27.91	27.72	27.52	27.33	27.13	29.1
29.2	29.20	29.00	28.80	28.60	28.41	28.21	28.01	27.82	27.62	27.42	27.23	29.2
29.3	29.30	29.10	28.90	28.70	28.51	28.31	28.11	27.91	27.72	27.52	27.33	29.3
29.4	29.40	29.20	29.00	28.80	28.61	28.41	28.21	28.01	27.82	27.62	27.42	29.4
29.5	29.50	29.30	29.10	28.90	28.70	28.51	28.31	28.11	27.91	27.72	27.52	29.5
29.6	29.60	29.40	29.20	29.00	28.80	28.61	28.41	28.21	28.01	27.82	27.62	29.6
29.7	29.70	29.50	29.30	29.10	28.90	28.70	28.51	28.31	28.11	27.91	27.72	29.7
29.8	29.80	29.60	29.40	29.20	29.00	28.80	28.60	28.41	28.21	28.01	27.82	29.8
29.9	29.90	29.70	29.50	29.30	29.10	28.90	28.70	28.51	28.31	28.11	27.91	29.9
30	30.00	29.80	29.60	29.40	29.20	29.00	28.80	28.60	28.41	28.21	28.01	30

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	
30	30.00	29.80	29.60	29.40	29.20	29.00	28.80	28.60	28.41	28.21	28.01	30
30.1	30.10	29.90	29.70	29.50	29.30	29.10	28.90	28.70	28.50	28.31	28.11	30.1
30.2	30.20	30.00	29.80	29.60	29.40	29.20	29.00	28.80	28.60	28.41	28.21	30.2
30.3	30.30	30.10	29.90	29.70	29.50	29.30	29.10	28.90	28.70	28.50	28.31	30.3
30.4	30.40	30.20	30.00	29.80	29.60	29.40	29.20	29.00	28.80	28.60	28.40	30.4
30.5	30.50	30.30	30.10	29.90	29.70	29.50	29.30	29.10	28.90	28.70	28.50	30.5
30.6	30.60	30.40	30.20	30.00	29.80	29.60	29.40	29.20	29.00	28.80	28.60	30.6
30.7	30.70	30.50	30.30	30.10	29.90	29.70	29.50	29.30	29.10	28.90	28.70	30.7
30.8	30.80	30.60	30.40	30.20	29.99	29.79	29.59	29.39	29.19	29.00	28.80	30.8
30.9	30.90	30.70	30.50	30.30	30.09	29.89	29.69	29.49	29.29	29.09	28.90	30.9
31	31.00	30.80	30.60	30.39	30.19	29.99	29.79	29.59	29.39	29.19	28.99	31
31.1	31.10	30.90	30.70	30.49	30.29	30.09	29.89	29.69	29.49	29.29	29.09	31.1
31.2	31.20	31.00	30.80	30.59	30.39	30.19	29.99	29.79	29.59	29.39	29.19	31.2
31.3	31.30	31.10	30.90	30.69	30.49	30.29	30.09	29.89	29.69	29.49	29.29	31.3
31.4	31.40	31.20	31.00	30.79	30.59	30.39	30.19	29.99	29.79	29.59	29.39	31.4
31.5	31.50	31.30	31.10	30.89	30.69	30.49	30.29	30.09	29.89	29.69	29.49	31.5
31.6	31.60	31.40	31.19	30.99	30.79	30.59	30.39	30.19	29.99	29.79	29.59	31.6
31.7	31.70	31.50	31.29	31.09	30.89	30.69	30.49	30.29	30.09	29.88	29.68	31.7
31.8	31.80	31.60	31.39	31.19	30.99	30.79	30.59	30.39	30.18	29.98	29.78	31.8
31.9	31.90	31.70	31.49	31.29	31.09	30.89	30.69	30.48	30.28	30.08	29.88	31.9
32	32.00	31.80	31.59	31.39	31.19	30.99	30.79	30.58	30.38	30.18	29.98	32
32.1	32.10	31.90	31.69	31.49	31.29	31.09	30.88	30.68	30.48	30.28	30.08	32.1
32.2	32.20	32.00	31.79	31.59	31.39	31.19	30.98	30.78	30.58	30.38	30.18	32.2
32.3	32.30	32.10	31.89	31.69	31.49	31.29	31.08	30.88	30.68	30.48	30.28	32.3
32.4	32.40	32.20	31.99	31.79	31.59	31.39	31.18	30.98	30.78	30.58	30.38	32.4
32.5	32.50	32.30	32.09	31.89	31.69	31.48	31.28	31.08	30.88	30.68	30.48	32.5
32.6	32.60	32.40	32.19	31.99	31.79	31.58	31.38	31.18	30.98	30.78	30.57	32.6
32.7	32.70	32.50	32.29	32.09	31.89	31.68	31.48	31.28	31.08	30.88	30.67	32.7
32.8	32.80	32.60	32.39	32.19	31.99	31.78	31.58	31.38	31.18	30.97	30.77	32.8
32.9	32.90	32.70	32.49	32.29	32.09	31.88	31.68	31.48	31.28	31.07	30.87	32.9
33	33.00	32.80	32.59	32.39	32.19	31.98	31.78	31.58	31.38	31.17	30.97	33
33.1	33.10	32.90	32.69	32.49	32.29	32.08	31.88	31.68	31.48	31.27	31.07	33.1
33.2	33.20	33.00	32.79	32.59	32.39	32.18	31.98	31.78	31.57	31.37	31.17	33.2
33.3	33.30	33.10	32.89	32.69	32.49	32.28	32.08	31.88	31.67	31.47	31.27	33.3
33.4	33.40	33.20	32.99	32.79	32.59	32.38	32.18	31.98	31.77	31.57	31.37	33.4
33.5	33.50	33.30	33.09	32.89	32.69	32.48	32.28	32.08	31.87	31.67	31.47	33.5
33.6	33.60	33.40	33.19	32.99	32.79	32.58	32.38	32.18	31.97	31.77	31.57	33.6
33.7	33.70	33.50	33.29	33.09	32.88	32.68	32.48	32.28	32.07	31.87	31.67	33.7
33.8	33.80	33.60	33.39	33.19	32.98	32.78	32.58	32.38	32.17	31.97	31.77	33.8
33.9	33.90	33.70	33.49	33.29	33.08	32.88	32.68	32.47	32.27	32.07	31.87	33.9
34	34.00	33.80	33.59	33.39	33.18	32.98	32.78	32.57	32.37	32.17	31.97	34
34.1	34.10	33.90	33.69	33.49	33.28	33.08	32.88	32.67	32.47	32.27	32.07	34.1
34.2	34.20	34.00	33.79	33.59	33.38	33.18	32.98	32.77	32.57	32.37	32.17	34.2
34.3	34.30	34.10	33.89	33.69	33.48	33.28	33.08	32.87	32.67	32.47	32.27	34.3
34.4	34.40	34.20	33.99	33.79	33.58	33.38	33.18	32.97	32.77	32.57	32.37	34.4
34.5	34.50	34.30	34.09	33.89	33.68	33.48	33.28	33.07	32.87	32.67	32.46	34.5
34.6	34.60	34.40	34.19	33.99	33.78	33.58	33.38	33.17	32.97	32.77	32.56	34.6
34.7	34.70	34.50	34.29	34.09	33.88	33.68	33.48	33.27	33.07	32.87	32.66	34.7
34.8	34.80	34.60	34.39	34.19	33.98	33.78	33.58	33.37	33.17	32.97	32.76	34.8
34.9	34.90	34.70	34.49	34.29	34.08	33.88	33.68	33.47	33.27	33.07	32.86	34.9
35	35.00	34.80	34.59	34.39	34.18	33.98	33.78	33.57	33.37	33.17	32.96	35



表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	
35	35.00	34.80	34.59	34.39	34.18	33.98	33.78	33.57	33.37	33.17	32.96	35
35.1	35.10	34.90	34.69	34.49	34.28	34.08	33.88	33.67	33.47	33.27	33.06	35.1
35.2	35.20	35.00	34.79	34.59	34.38	34.18	33.98	33.77	33.57	33.37	33.16	35.2
35.3	35.30	35.10	34.89	34.69	34.48	34.28	34.08	33.87	33.67	33.47	33.26	35.3
35.4	35.40	35.20	34.99	34.79	34.58	34.38	34.18	33.97	33.77	33.57	33.36	35.4
35.5	35.50	35.30	35.09	34.89	34.68	34.48	34.28	34.07	33.87	33.67	33.46	35.5
35.6	35.60	35.40	35.19	34.99	34.78	34.58	34.38	34.17	33.97	33.77	33.56	35.6
35.7	35.70	35.50	35.29	35.09	34.89	34.68	34.48	34.27	34.07	33.87	33.66	35.7
35.8	35.80	35.60	35.39	35.19	34.99	34.78	34.58	34.37	34.17	33.97	33.76	35.8
35.9	35.90	35.70	35.49	35.29	35.09	34.88	34.68	34.48	34.27	34.07	33.87	35.9
36	36.00	35.80	35.59	35.39	35.19	34.98	34.78	34.58	34.37	34.17	33.97	36
36.1	36.10	35.90	35.69	35.49	35.29	35.08	34.88	34.68	34.47	34.27	34.07	36.1
36.2	36.20	36.00	35.79	35.59	35.39	35.18	34.98	34.78	34.57	34.37	34.17	36.2
36.3	36.30	36.10	35.89	35.69	35.49	35.28	35.08	34.88	34.67	34.47	34.27	36.3
36.4	36.40	36.20	35.99	35.79	35.59	35.38	35.18	34.98	34.77	34.57	34.37	36.4
36.5	36.50	36.30	36.09	35.89	35.69	35.48	35.28	35.08	34.87	34.67	34.47	36.5
36.6	36.60	36.40	36.19	35.99	35.79	35.58	35.38	35.18	34.97	34.77	34.57	36.6
36.7	36.70	36.50	36.29	36.09	35.89	35.68	35.48	35.28	35.07	34.87	34.67	36.7
36.8	36.80	36.60	36.39	36.19	35.99	35.78	35.58	35.38	35.17	34.97	34.77	36.8
36.9	36.90	36.70	36.49	36.29	36.09	35.88	35.68	35.48	35.27	35.07	34.87	36.9
37	37.00	36.80	36.59	36.39	36.19	35.98	35.78	35.58	35.38	35.17	34.97	37
37.1	37.10	36.90	36.69	36.49	36.29	36.08	35.88	35.68	35.48	35.27	35.07	37.1
37.2	37.20	37.00	36.79	36.59	36.39	36.19	35.98	35.78	35.58	35.37	35.17	37.2
37.3	37.30	37.10	36.89	36.69	36.49	36.29	36.08	35.88	35.68	35.47	35.27	37.3
37.4	37.40	37.20	36.99	36.79	36.59	36.39	36.18	35.98	35.78	35.57	35.37	37.4
37.5	37.50	37.30	37.09	36.89	36.69	36.49	36.28	36.08	35.88	35.67	35.47	37.5
37.6	37.60	37.40	37.19	36.99	36.79	36.59	36.38	36.18	35.98	35.78	35.57	37.6
37.7	37.70	37.50	37.29	37.09	36.89	36.69	36.48	36.28	36.08	35.88	35.67	37.7
37.8	37.80	37.60	37.39	37.19	36.99	36.79	36.58	36.38	36.18	35.98	35.77	37.8
37.9	37.90	37.70	37.50	37.29	37.09	36.89	36.69	36.48	36.28	36.08	35.87	37.9
38	38.00	37.80	37.60	37.39	37.19	36.99	36.79	36.58	36.38	36.18	35.98	38
38.1	38.10	37.90	37.70	37.49	37.29	37.09	36.89	36.68	36.48	36.28	36.08	38.1
38.2	38.20	38.00	37.80	37.59	37.39	37.19	36.99	36.78	36.58	36.38	36.18	38.2
38.3	38.30	38.10	37.90	37.69	37.49	37.29	37.09	36.88	36.68	36.48	36.28	38.3
38.4	38.40	38.20	38.00	37.79	37.59	37.39	37.19	36.99	36.78	36.58	36.38	38.4
38.5	38.50	38.30	38.10	37.89	37.69	37.49	37.29	37.09	36.88	36.68	36.48	38.5
38.6	38.60	38.40	38.20	37.99	37.79	37.59	37.39	37.19	36.98	36.78	36.58	38.6
38.7	38.70	38.50	38.30	38.09	37.89	37.69	37.49	37.29	37.08	36.88	36.68	38.7
38.8	38.80	38.60	38.40	38.20	37.99	37.79	37.59	37.39	37.19	36.98	36.78	38.8
38.9	38.90	38.70	38.50	38.30	38.09	37.89	37.69	37.49	37.29	37.08	36.88	38.9
39	39.00	38.80	38.60	38.40	38.19	37.99	37.79	37.59	37.39	37.19	36.98	39
39.1	39.10	38.90	38.70	38.50	38.29	38.09	37.89	37.69	37.49	37.29	37.08	39.1
39.2	39.20	39.00	38.80	38.60	38.39	38.19	37.99	37.79	37.59	37.39	37.18	39.2
39.3	39.30	39.10	38.90	38.70	38.50	38.29	38.09	37.89	37.69	37.49	37.29	39.3
39.4	39.40	39.20	39.00	38.80	38.60	38.39	38.19	37.99	37.79	37.59	37.39	39.4
39.5	39.50	39.30	39.10	38.90	38.70	38.49	38.29	38.09	37.89	37.69	37.49	39.5
39.6	39.60	39.40	39.20	39.00	38.80	38.60	38.39	38.19	37.99	37.79	37.59	39.6
39.7	39.70	39.50	39.30	39.10	38.90	38.70	38.49	38.29	38.09	37.89	37.69	39.7
39.8	39.80	39.60	39.40	39.20	39.00	38.80	38.60	38.39	38.19	37.99	37.79	39.8
39.9	39.90	39.70	39.50	39.30	39.10	38.90	38.70	38.50	38.29	38.09	37.89	39.9
40	40.00	39.80	39.60	39.40	39.20	39.00	38.80	38.60	38.39	38.19	37.99	40

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	
40	40.00	39.80	39.60	39.40	39.20	39.00	38.80	38.60	38.39	38.19	37.99	40
40.1	40.10	39.90	39.70	39.50	39.30	39.10	38.90	38.70	38.50	38.29	38.09	40.1
40.2	40.20	40.00	39.80	39.60	39.40	39.20	39.00	38.80	38.60	38.40	38.19	40.2
40.3	40.30	40.10	39.90	39.70	39.50	39.30	39.10	38.90	38.70	38.50	38.30	40.3
40.4	40.40	40.20	40.00	39.80	39.60	39.40	39.20	39.00	38.80	38.60	38.40	40.4
40.5	40.50	40.30	40.10	39.90	39.70	39.50	39.30	39.10	38.90	38.70	38.50	40.5
40.6	40.60	40.40	40.20	40.00	39.80	39.60	39.40	39.20	39.00	38.80	38.60	40.6
40.7	40.70	40.50	40.30	40.10	39.90	39.70	39.50	39.30	39.10	38.90	38.70	40.7
40.8	40.80	40.60	40.40	40.20	40.00	39.80	39.60	39.40	39.20	39.00	38.80	40.8
40.9	40.90	40.70	40.50	40.30	40.10	39.90	39.70	39.50	39.30	39.10	38.90	40.9
41	41.00	40.80	40.60	40.40	40.20	40.00	39.80	39.60	39.40	39.20	39.00	41
41.1	41.10	40.90	40.70	40.50	40.30	40.10	39.90	39.70	39.50	39.30	39.10	41.1
41.2	41.20	41.00	40.80	40.60	40.40	40.20	40.00	39.81	39.61	39.41	39.21	41.2
41.3	41.30	41.10	40.90	40.70	40.50	40.31	40.11	39.91	39.71	39.51	39.31	41.3
41.4	41.40	41.20	41.00	40.80	40.60	40.41	40.21	40.01	39.81	39.61	39.41	41.4
41.5	41.50	41.30	41.10	40.90	40.71	40.51	40.31	40.11	39.91	39.71	39.51	41.5
41.6	41.60	41.40	41.20	41.00	40.81	40.61	40.41	40.21	40.01	39.81	39.61	41.6
41.7	41.70	41.50	41.30	41.10	40.91	40.71	40.51	40.31	40.11	39.91	39.71	41.7
41.8	41.80	41.60	41.40	41.21	41.01	40.81	40.61	40.41	40.21	40.01	39.81	41.8
41.9	41.90	41.70	41.50	41.31	41.11	40.91	40.71	40.51	40.31	40.11	39.91	41.9
42	42.00	41.80	41.60	41.41	41.21	41.01	40.81	40.61	40.41	40.21	40.01	42
42.1	42.10	41.90	41.70	41.51	41.31	41.11	40.91	40.71	40.51	40.32	40.12	42.1
42.2	42.20	42.00	41.80	41.61	41.41	41.21	41.01	40.81	40.62	40.42	40.22	42.2
42.3	42.30	42.10	41.91	41.71	41.51	41.31	41.11	40.91	40.72	40.52	40.32	42.3
42.4	42.40	42.20	42.01	41.81	41.61	41.41	41.21	41.02	40.82	40.62	40.42	42.4
42.5	42.50	42.30	42.11	41.91	41.71	41.51	41.31	41.12	40.92	40.72	40.52	42.5
42.6	42.60	42.40	42.21	42.01	41.81	41.61	41.42	41.22	41.02	40.82	40.62	42.6
42.7	42.70	42.50	42.31	42.11	41.91	41.71	41.52	41.32	41.12	40.92	40.72	42.7
42.8	42.80	42.60	42.41	42.21	42.01	41.81	41.62	41.42	41.22	41.02	40.82	42.8
42.9	42.90	42.70	42.51	42.31	42.11	41.92	41.72	41.52	41.32	41.12	40.93	42.9
43	43.00	42.80	42.61	42.41	42.21	42.02	41.82	41.62	41.42	41.23	41.03	43
43.1	43.10	42.90	42.71	42.51	42.31	42.12	41.92	41.72	41.52	41.33	41.13	43.1
43.2	43.20	43.00	42.81	42.61	42.41	42.22	42.02	41.82	41.63	41.43	41.23	43.2
43.3	43.30	43.10	42.91	42.71	42.51	42.32	42.12	41.92	41.73	41.53	41.33	43.3
43.4	43.40	43.20	43.01	42.81	42.62	42.42	42.22	42.02	41.83	41.63	41.43	43.4
43.5	43.50	43.30	43.11	42.91	42.72	42.52	42.32	42.13	41.93	41.73	41.53	43.5
43.6	43.60	43.40	43.21	43.01	42.82	42.62	42.42	42.23	42.03	41.83	41.64	43.6
43.7	43.70	43.50	43.31	43.11	42.92	42.72	42.52	42.33	42.13	41.93	41.74	43.7
43.8	43.80	43.60	43.41	43.21	43.02	42.82	42.62	42.43	42.23	42.03	41.84	43.8
43.9	43.90	43.70	43.51	43.31	43.12	42.92	42.73	42.53	42.33	42.14	41.94	43.9
44	44.00	43.80	43.61	43.41	43.22	43.02	42.83	42.63	42.43	42.24	42.04	44
44.1	44.10	43.91	43.71	43.51	43.32	43.12	42.93	42.73	42.53	42.34	42.14	44.1
44.2	44.20	44.01	43.81	43.62	43.42	43.22	43.03	42.83	42.64	42.44	42.24	44.2
44.3	44.30	44.11	43.91	43.72	43.52	43.32	43.13	42.93	42.74	42.54	42.34	44.3
44.4	44.40	44.21	44.01	43.82	43.62	43.43	43.23	43.03	42.84	42.64	42.45	44.4
44.5	44.50	44.31	44.11	43.92	43.72	43.53	43.33	43.13	42.94	42.74	42.55	44.5
44.6	44.60	44.41	44.21	44.02	43.82	43.63	43.43	43.24	43.04	42.84	42.65	44.6
44.7	44.70	44.51	44.31	44.12	43.92	43.73	43.53	43.34	43.14	42.95	42.75	44.7
44.8	44.80	44.61	44.41	44.22	44.02	43.83	43.63	43.44	43.24	43.05	42.85	44.8
44.9	44.90	44.71	44.51	44.32	44.12	43.93	43.73	43.54	43.34	43.15	42.95	44.9
45	45.00	44.81	44.61	44.42	44.22	44.03	43.83	43.64	43.44	43.25	43.05	45

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	
45	45.00	44.81	44.61	44.42	44.22	44.03	43.83	43.64	43.44	43.25	43.05	45
45.1	45.10	44.91	44.71	44.52	44.32	44.13	43.94	43.74	43.55	43.35	43.16	45.1
45.2	45.20	45.01	44.81	44.62	44.43	44.23	44.04	43.84	43.65	43.45	43.26	45.2
45.3	45.30	45.11	44.91	44.72	44.53	44.33	44.14	43.94	43.75	43.55	43.36	45.3
45.4	45.40	45.21	45.01	44.82	44.63	44.43	44.24	44.04	43.85	43.65	43.46	45.4
45.5	45.50	45.31	45.11	44.92	44.73	44.53	44.34	44.14	43.95	43.76	43.56	45.5
45.6	45.60	45.41	45.21	45.02	44.83	44.63	44.44	44.25	44.05	43.86	43.66	45.6
45.7	45.70	45.51	45.31	45.12	44.93	44.73	44.54	44.35	44.15	43.96	43.76	45.7
45.8	45.80	45.61	45.41	45.22	45.03	44.84	44.64	44.45	44.25	44.06	43.86	45.8
45.9	45.90	45.71	45.51	45.32	45.13	44.94	44.74	44.55	44.35	44.16	43.97	45.9
46	46.00	45.81	45.62	45.42	45.23	45.04	44.84	44.65	44.46	44.26	44.07	46
46.1	46.10	45.91	45.72	45.52	45.33	45.14	44.94	44.75	44.56	44.36	44.17	46.1
46.2	46.20	46.01	45.82	45.62	45.43	45.24	45.04	44.85	44.66	44.46	44.27	46.2
46.3	46.30	46.11	45.92	45.72	45.53	45.34	45.15	44.95	44.76	44.57	44.37	46.3
46.4	46.40	46.21	46.02	45.82	45.63	45.44	45.25	45.05	44.86	44.67	44.47	46.4
46.5	46.50	46.31	46.12	45.92	45.73	45.54	45.35	45.15	44.96	44.77	44.57	46.5
46.6	46.60	46.41	46.22	46.03	45.83	45.64	45.45	45.26	45.06	44.87	44.68	46.6
46.7	46.70	46.51	46.32	46.13	45.93	45.74	45.55	45.36	45.16	44.97	44.78	46.7
46.8	46.80	46.61	46.42	46.23	46.03	45.84	45.65	45.46	45.26	45.07	44.88	46.8
46.9	46.90	46.71	46.52	46.33	46.13	45.94	45.75	45.56	45.37	45.17	44.98	46.9
47	47.00	46.81	46.62	46.43	46.24	46.04	45.85	45.66	45.47	45.27	45.08	47
47.1	47.10	46.91	46.72	46.53	46.34	46.14	45.95	45.76	45.57	45.37	45.18	47.1
47.2	47.20	47.01	46.82	46.63	46.44	46.24	46.05	45.86	45.67	45.48	45.28	47.2
47.3	47.30	47.11	46.92	46.73	46.54	46.35	46.15	45.96	45.77	45.58	45.38	47.3
47.4	47.40	47.21	47.02	46.83	46.64	46.45	46.25	46.06	45.87	45.68	45.49	47.4
47.5	47.50	47.31	47.12	46.93	46.74	46.55	46.36	46.16	45.97	45.78	45.59	47.5
47.6	47.60	47.41	47.22	47.03	46.84	46.65	46.46	46.26	46.07	45.88	45.69	47.6
47.7	47.70	47.51	47.32	47.13	46.94	46.75	46.56	46.37	46.17	45.98	45.79	47.7
47.8	47.80	47.61	47.42	47.23	47.04	46.85	46.66	46.47	46.28	46.08	45.89	47.8
47.9	47.90	47.71	47.52	47.33	47.14	46.95	46.76	46.57	46.38	46.18	45.99	47.9
48	48.00	47.81	47.62	47.43	47.24	47.05	46.86	46.67	46.48	46.29	46.09	48
48.1	48.10	47.91	47.72	47.53	47.34	47.15	46.96	46.77	46.58	46.39	46.20	48.1
48.2	48.20	48.01	47.82	47.63	47.44	47.25	47.06	46.87	46.68	46.49	46.30	48.2
48.3	48.30	48.11	47.92	47.73	47.54	47.35	47.16	46.97	46.78	46.59	46.40	48.3
48.4	48.40	48.21	48.02	47.83	47.64	47.45	47.26	47.07	46.88	46.69	46.50	48.4
48.5	48.50	48.31	48.12	47.93	47.74	47.55	47.36	47.17	46.98	46.79	46.60	48.5
48.6	48.60	48.41	48.22	48.03	47.84	47.65	47.46	47.27	47.08	46.89	46.70	48.6
48.7	48.70	48.51	48.32	48.13	47.94	47.75	47.57	47.38	47.18	46.99	46.80	48.7
48.8	48.80	48.61	48.42	48.23	48.05	47.86	47.67	47.48	47.29	47.10	46.90	48.8
48.9	48.90	48.71	48.52	48.33	48.15	47.96	47.77	47.58	47.39	47.20	47.01	48.9
49	49.00	48.81	48.62	48.43	48.25	48.06	47.87	47.68	47.49	47.30	47.11	49
49.1	49.10	48.91	48.72	48.54	48.35	48.16	47.97	47.78	47.59	47.40	47.21	49.1
49.2	49.20	49.01	48.82	48.64	48.45	48.26	48.07	47.88	47.69	47.50	47.31	49.2
49.3	49.30	49.11	48.92	48.74	48.55	48.36	48.17	47.98	47.79	47.60	47.41	49.3
49.4	49.40	49.21	49.02	48.84	48.65	48.46	48.27	48.08	47.89	47.70	47.51	49.4
49.5	49.50	49.31	49.12	48.94	48.75	48.56	48.37	48.18	47.99	47.80	47.61	49.5
49.6	49.60	49.41	49.23	49.04	48.85	48.66	48.47	48.28	48.09	47.91	47.72	49.6
49.7	49.70	49.51	49.33	49.14	48.95	48.76	48.57	48.38	48.20	48.01	47.82	49.7
49.8	49.80	49.61	49.43	49.24	49.05	48.86	48.67	48.49	48.30	48.11	47.92	49.8
49.9	49.90	49.71	49.53	49.34	49.15	48.96	48.77	48.59	48.40	48.21	48.02	49.9
50	50.00	49.81	49.63	49.44	49.25	49.06	48.88	48.69	48.50	48.31	48.12	50

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	
50	50.00	49.81	49.63	49.44	49.25	49.06	48.88	48.69	48.50	48.31	48.12	50
50.1	50.10	49.91	49.73	49.54	49.35	49.16	48.98	48.79	48.60	48.41	48.22	50.1
50.2	50.20	50.01	49.83	49.64	49.45	49.26	49.08	48.89	48.70	48.51	48.32	50.2
50.3	50.30	50.11	49.93	49.74	49.55	49.37	49.18	48.99	48.80	48.61	48.42	50.3
50.4	50.40	50.21	50.03	49.84	49.65	49.47	49.28	49.09	48.90	48.71	48.53	50.4
50.5	50.50	50.31	50.13	49.94	49.75	49.57	49.38	49.19	49.00	48.82	48.63	50.5
50.6	50.60	50.41	50.23	50.04	49.85	49.67	49.48	49.29	49.10	48.92	48.73	50.6
50.7	50.70	50.51	50.33	50.14	49.96	49.77	49.58	49.39	49.21	49.02	48.83	50.7
50.8	50.80	50.61	50.43	50.24	50.06	49.87	49.68	49.49	49.31	49.12	48.93	50.8
50.9	50.90	50.71	50.53	50.34	50.16	49.97	49.78	49.60	49.41	49.22	49.03	50.9
51	51.00	50.81	50.63	50.44	50.26	50.07	49.88	49.70	49.51	49.32	49.13	51
51.1	51.10	50.91	50.73	50.54	50.36	50.17	49.98	49.80	49.61	49.42	49.23	51.1
51.2	51.20	51.01	50.83	50.64	50.46	50.27	50.08	49.90	49.71	49.52	49.34	51.2
51.3	51.30	51.11	50.93	50.74	50.56	50.37	50.19	50.00	49.81	49.62	49.44	51.3
51.4	51.40	51.22	51.03	50.84	50.66	50.47	50.29	50.10	49.91	49.73	49.54	51.4
51.5	51.50	51.32	51.13	50.94	50.76	50.57	50.39	50.20	50.01	49.83	49.64	51.5
51.6	51.60	51.42	51.23	51.05	50.86	50.67	50.49	50.30	50.12	49.93	49.74	51.6
51.7	51.70	51.52	51.33	51.15	50.96	50.77	50.59	50.40	50.22	50.03	49.84	51.7
51.8	51.80	51.62	51.43	51.25	51.06	50.88	50.69	50.50	50.32	50.13	49.94	51.8
51.9	51.90	51.72	51.53	51.35	51.16	50.98	50.79	50.60	50.42	50.23	50.04	51.9
52	52.00	51.82	51.63	51.45	51.26	51.08	50.89	50.71	50.52	50.33	50.15	52
52.1	52.10	51.92	51.73	51.55	51.36	51.18	50.99	50.81	50.62	50.43	50.25	52.1
52.2	52.20	52.02	51.83	51.65	51.46	51.28	51.09	50.91	50.72	50.53	50.35	52.2
52.3	52.30	52.12	51.93	51.75	51.56	51.38	51.19	51.01	50.82	50.64	50.45	52.3
52.4	52.40	52.22	52.03	51.85	51.66	51.48	51.29	51.11	50.92	50.74	50.55	52.4
52.5	52.50	52.32	52.13	51.95	51.76	51.58	51.39	51.21	51.02	50.84	50.65	52.5
52.6	52.60	52.42	52.23	52.05	51.86	51.68	51.50	51.31	51.13	50.94	50.75	52.6
52.7	52.70	52.52	52.33	52.15	51.97	51.78	51.60	51.41	51.23	51.04	50.85	52.7
52.8	52.80	52.62	52.43	52.25	52.07	51.88	51.70	51.51	51.33	51.14	50.96	52.8
52.9	52.90	52.72	52.53	52.35	52.17	51.98	51.80	51.61	51.43	51.24	51.06	52.9
53	53.00	52.82	52.63	52.45	52.27	52.08	51.90	51.71	51.53	51.34	51.16	53
53.1	53.10	52.92	52.73	52.55	52.37	52.18	52.00	51.81	51.63	51.44	51.26	53.1
53.2	53.20	53.02	52.83	52.65	52.47	52.28	52.10	51.92	51.73	51.55	51.36	53.2
53.3	53.30	53.12	52.93	52.75	52.57	52.38	52.20	52.02	51.83	51.65	51.46	53.3
53.4	53.40	53.22	53.03	52.85	52.67	52.49	52.30	52.12	51.93	51.75	51.56	53.4
53.5	53.50	53.32	53.14	52.95	52.77	52.59	52.40	52.22	52.03	51.85	51.66	53.5
53.6	53.60	53.42	53.24	53.05	52.87	52.69	52.50	52.32	52.13	51.95	51.77	53.6
53.7	53.70	53.52	53.34	53.15	52.97	52.79	52.60	52.42	52.24	52.05	51.87	53.7
53.8	53.80	53.62	53.44	53.25	53.07	52.89	52.70	52.52	52.34	52.15	51.97	53.8
53.9	53.90	53.72	53.54	53.35	53.17	52.99	52.80	52.62	52.44	52.25	52.07	53.9
54	54.00	53.82	53.64	53.45	53.27	53.09	52.91	52.72	52.54	52.35	52.17	54
54.1	54.10	53.92	53.74	53.55	53.37	53.19	53.01	52.82	52.64	52.46	52.27	54.1
54.2	54.20	54.02	53.84	53.65	53.47	53.29	53.11	52.92	52.74	52.56	52.37	54.2
54.3	54.30	54.12	53.94	53.76	53.57	53.39	53.21	53.02	52.84	52.66	52.47	54.3
54.4	54.40	54.22	54.04	53.86	53.67	53.49	53.31	53.13	52.94	52.76	52.58	54.4
54.5	54.50	54.32	54.14	53.96	53.77	53.59	53.41	53.23	53.04	52.86	52.68	54.5
54.6	54.60	54.42	54.24	54.06	53.87	53.69	53.51	53.33	53.14	52.96	52.78	54.6
54.7	54.70	54.52	54.34	54.16	53.97	53.79	53.61	53.43	53.25	53.06	52.88	54.7
54.8	54.80	54.62	54.44	54.26	54.08	53.89	53.71	53.53	53.35	53.16	52.98	54.8
54.9	54.90	54.72	54.54	54.36	54.18	53.99	53.81	53.63	53.45	53.26	53.08	54.9
55	55.00	54.82	54.64	54.46	54.28	54.09	53.91	53.73	53.55	53.37	53.18	55

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃										酒精度 % vol	
	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5		25
55	55.00	54.82	54.64	54.46	54.28	54.09	53.91	53.73	53.55	53.37	53.18	55
55.1	55.10	54.92	54.74	54.56	54.38	54.20	54.01	53.83	53.65	53.47	53.28	55.1
55.2	55.20	55.02	54.84	54.66	54.48	54.30	54.11	53.93	53.75	53.57	53.38	55.2
55.3	55.30	55.12	54.94	54.76	54.58	54.40	54.21	54.03	53.85	53.67	53.49	55.3
55.4	55.40	55.22	55.04	54.86	54.68	54.50	54.32	54.13	53.95	53.77	53.59	55.4
55.5	55.50	55.32	55.14	54.96	54.78	54.60	54.42	54.23	54.05	53.87	53.69	55.5
55.6	55.60	55.42	55.24	55.06	54.88	54.70	54.52	54.34	54.15	53.97	53.79	55.6
55.7	55.70	55.52	55.34	55.16	54.98	54.80	54.62	54.44	54.25	54.07	53.89	55.7
55.8	55.80	55.62	55.44	55.26	55.08	54.90	54.72	54.54	54.36	54.17	53.99	55.8
55.9	55.90	55.72	55.54	55.36	55.18	55.00	54.82	54.64	54.46	54.27	54.09	55.9
56	56.00	55.82	55.64	55.46	55.28	55.10	54.92	54.74	54.56	54.38	54.19	56
56.1	56.10	55.92	55.74	55.56	55.38	55.20	55.02	54.84	54.66	54.48	54.29	56.1
56.2	56.20	56.02	55.84	55.66	55.48	55.30	55.12	54.94	54.76	54.58	54.40	56.2
56.3	56.30	56.12	55.94	55.76	55.58	55.40	55.22	55.04	54.86	54.68	54.50	56.3
56.4	56.40	56.22	56.04	55.86	55.68	55.50	55.32	55.14	54.96	54.78	54.60	56.4
56.5	56.50	56.32	56.14	55.96	55.78	55.60	55.42	55.24	55.06	54.88	54.70	56.5
56.6	56.60	56.42	56.24	56.06	55.88	55.70	55.52	55.34	55.16	54.98	54.80	56.6
56.7	56.70	56.52	56.34	56.16	55.98	55.80	55.62	55.44	55.26	55.08	54.90	56.7
56.8	56.80	56.62	56.44	56.26	56.08	55.91	55.73	55.54	55.36	55.18	55.00	56.8
56.9	56.90	56.72	56.54	56.36	56.19	56.01	55.83	55.65	55.47	55.28	55.10	56.9
57	57.00	56.82	56.64	56.46	56.29	56.11	55.93	55.75	55.57	55.39	55.20	57
57.1	57.10	56.92	56.74	56.56	56.39	56.21	56.03	55.85	55.67	55.49	55.31	57.1
57.2	57.20	57.02	56.84	56.67	56.49	56.31	56.13	55.95	55.77	55.59	55.41	57.2
57.3	57.30	57.12	56.94	56.77	56.59	56.41	56.23	56.05	55.87	55.69	55.51	57.3
57.4	57.40	57.22	57.04	56.87	56.69	56.51	56.33	56.15	55.97	55.79	55.61	57.4
57.5	57.50	57.32	57.14	56.97	56.79	56.61	56.43	56.25	56.07	55.89	55.71	57.5
57.6	57.60	57.42	57.24	57.07	56.89	56.71	56.53	56.35	56.17	55.99	55.81	57.6
57.7	57.70	57.52	57.35	57.17	56.99	56.81	56.63	56.45	56.27	56.09	55.91	57.7
57.8	57.80	57.62	57.45	57.27	57.09	56.91	56.73	56.55	56.37	56.19	56.01	57.8
57.9	57.90	57.72	57.55	57.37	57.19	57.01	56.83	56.65	56.47	56.29	56.11	57.9
58	58.00	57.82	57.65	57.47	57.29	57.11	56.93	56.75	56.58	56.40	56.22	58
58.1	58.10	57.92	57.75	57.57	57.39	57.21	57.03	56.86	56.68	56.50	56.32	58.1
58.2	58.20	58.02	57.85	57.67	57.49	57.31	57.13	56.96	56.78	56.60	56.42	58.2
58.3	58.30	58.12	57.95	57.77	57.59	57.41	57.24	57.06	56.88	56.70	56.52	58.3
58.4	58.40	58.22	58.05	57.87	57.69	57.51	57.34	57.16	56.98	56.80	56.62	58.4
58.5	58.50	58.32	58.15	57.97	57.79	57.61	57.44	57.26	57.08	56.90	56.72	58.5
58.6	58.60	58.42	58.25	58.07	57.89	57.72	57.54	57.36	57.18	57.00	56.82	58.6
58.7	58.70	58.52	58.35	58.17	57.99	57.82	57.64	57.46	57.28	57.10	56.92	58.7
58.8	58.80	58.62	58.45	58.27	58.09	57.92	57.74	57.56	57.38	57.20	57.02	58.8
58.9	58.90	58.72	58.55	58.37	58.19	58.02	57.84	57.66	57.48	57.30	57.13	58.9
59	59.00	58.82	58.65	58.47	58.29	58.12	57.94	57.76	57.58	57.41	57.23	59
59.1	59.10	58.92	58.75	58.57	58.39	58.22	58.04	57.86	57.68	57.51	57.33	59.1
59.2	59.20	59.02	58.85	58.67	58.50	58.32	58.14	57.96	57.79	57.61	57.43	59.2
59.3	59.30	59.12	58.95	58.77	58.60	58.42	58.24	58.06	57.89	57.71	57.53	59.3
59.4	59.40	59.22	59.05	58.87	58.70	58.52	58.34	58.17	57.99	57.81	57.63	59.4
59.5	59.50	59.32	59.15	58.97	58.80	58.62	58.44	58.27	58.09	57.91	57.73	59.5
59.6	59.60	59.42	59.25	59.07	58.90	58.72	58.54	58.37	58.19	58.01	57.83	59.6
59.7	59.70	59.52	59.35	59.17	59.00	58.82	58.64	58.47	58.29	58.11	57.93	59.7
59.8	59.80	59.63	59.45	59.27	59.10	58.92	58.75	58.57	58.39	58.21	58.04	59.8
59.9	59.90	59.73	59.55	59.37	59.20	59.02	58.85	58.67	58.49	58.31	58.14	59.9
60	60.00	59.83	59.65	59.47	59.30	59.12	58.95	58.77	58.59	58.42	58.24	60

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	
60	60.00	59.83	59.65	59.47	59.30	59.12	58.95	58.77	58.59	58.42	58.24	60
60.1	60.10	59.93	59.75	59.58	59.40	59.22	59.05	58.87	58.69	58.52	58.34	60.1
60.2	60.20	60.03	59.85	59.68	59.50	59.32	59.15	58.97	58.79	58.62	58.44	60.2
60.3	60.30	60.13	59.95	59.78	59.60	59.42	59.25	59.07	58.90	58.72	58.54	60.3
60.4	60.40	60.23	60.05	59.88	59.70	59.53	59.35	59.17	59.00	58.82	58.64	60.4
60.5	60.50	60.33	60.15	59.98	59.80	59.63	59.45	59.27	59.10	58.92	58.74	60.5
60.6	60.60	60.43	60.25	60.08	59.90	59.73	59.55	59.37	59.20	59.02	58.84	60.6
60.7	60.70	60.53	60.35	60.18	60.00	59.83	59.65	59.48	59.30	59.12	58.95	60.7
60.8	60.80	60.63	60.45	60.28	60.10	59.93	59.75	59.58	59.40	59.22	59.05	60.8
60.9	60.90	60.73	60.55	60.38	60.20	60.03	59.85	59.68	59.50	59.32	59.15	60.9
61	61.00	60.83	60.65	60.48	60.30	60.13	59.95	59.78	59.60	59.43	59.25	61
61.1	61.10	60.93	60.75	60.58	60.40	60.23	60.05	59.88	59.70	59.53	59.35	61.1
61.2	61.20	61.03	60.85	60.68	60.50	60.33	60.15	59.98	59.80	59.63	59.45	61.2
61.3	61.30	61.13	60.95	60.78	60.60	60.43	60.26	60.08	59.90	59.73	59.55	61.3
61.4	61.40	61.23	61.05	60.88	60.71	60.53	60.36	60.18	60.01	59.83	59.65	61.4
61.5	61.50	61.33	61.15	60.98	60.81	60.63	60.46	60.28	60.11	59.93	59.75	61.5
61.6	61.60	61.43	61.25	61.08	60.91	60.73	60.56	60.38	60.21	60.03	59.86	61.6
61.7	61.70	61.53	61.35	61.18	61.01	60.83	60.66	60.48	60.31	60.13	59.96	61.7
61.8	61.80	61.63	61.45	61.28	61.11	60.93	60.76	60.58	60.41	60.23	60.06	61.8
61.9	61.90	61.73	61.55	61.38	61.21	61.03	60.86	60.68	60.51	60.33	60.16	61.9
62	62.00	61.83	61.65	61.48	61.31	61.13	60.96	60.79	60.61	60.44	60.26	62
62.1	62.10	61.93	61.75	61.58	61.41	61.23	61.06	60.89	60.71	60.54	60.36	62.1
62.2	62.20	62.03	61.86	61.68	61.51	61.34	61.16	60.99	60.81	60.64	60.46	62.2
62.3	62.30	62.13	61.96	61.78	61.61	61.44	61.26	61.09	60.91	60.74	60.56	62.3
62.4	62.40	62.23	62.06	61.88	61.71	61.54	61.36	61.19	61.01	60.84	60.66	62.4
62.5	62.50	62.33	62.16	61.98	61.81	61.64	61.46	61.29	61.11	60.94	60.77	62.5
62.6	62.60	62.43	62.26	62.08	61.91	61.74	61.56	61.39	61.22	61.04	60.87	62.6
62.7	62.70	62.53	62.36	62.18	62.01	61.84	61.66	61.49	61.32	61.14	60.97	62.7
62.8	62.80	62.63	62.46	62.28	62.11	61.94	61.77	61.59	61.42	61.24	61.07	62.8
62.9	62.90	62.73	62.56	62.38	62.21	62.04	61.87	61.69	61.52	61.34	61.17	62.9
63	63.00	62.83	62.66	62.48	62.31	62.14	61.97	61.79	61.62	61.45	61.27	63
63.1	63.10	62.93	62.76	62.59	62.41	62.24	62.07	61.89	61.72	61.55	61.37	63.1
63.2	63.20	63.03	62.86	62.69	62.51	62.34	62.17	61.99	61.82	61.65	61.47	63.2
63.3	63.30	63.13	62.96	62.79	62.61	62.44	62.27	62.10	61.92	61.75	61.57	63.3
63.4	63.40	63.23	63.06	62.89	62.71	62.54	62.37	62.20	62.02	61.85	61.68	63.4
63.5	63.50	63.33	63.16	62.99	62.81	62.64	62.47	62.30	62.12	61.95	61.78	63.5
63.6	63.60	63.43	63.26	63.09	62.91	62.74	62.57	62.40	62.22	62.05	61.88	63.6
63.7	63.70	63.53	63.36	63.19	63.02	62.84	62.67	62.50	62.33	62.15	61.98	63.7
63.8	63.80	63.63	63.46	63.29	63.12	62.94	62.77	62.60	62.43	62.25	62.08	63.8
63.9	63.90	63.73	63.56	63.39	63.22	63.04	62.87	62.70	62.53	62.35	62.18	63.9
64	64.00	63.83	63.66	63.49	63.32	63.15	62.97	62.80	62.63	62.46	62.28	64
64.1	64.10	63.93	63.76	63.59	63.42	63.25	63.07	62.90	62.73	62.56	62.38	64.1
64.2	64.20	64.03	63.86	63.69	63.52	63.35	63.17	63.00	62.83	62.66	62.48	64.2
64.3	64.30	64.13	63.96	63.79	63.62	63.45	63.28	63.10	62.93	62.76	62.59	64.3
64.4	64.40	64.23	64.06	63.89	63.72	63.55	63.38	63.20	63.03	62.86	62.69	64.4
64.5	64.50	64.33	64.16	63.99	63.82	63.65	63.48	63.30	63.13	62.96	62.79	64.5
64.6	64.60	64.43	64.26	64.09	63.92	63.75	63.58	63.41	63.23	63.06	62.89	64.6
64.7	64.70	64.53	64.36	64.19	64.02	63.85	63.68	63.51	63.33	63.16	62.99	64.7
64.8	64.80	64.63	64.46	64.29	64.12	63.95	63.78	63.61	63.44	63.26	63.09	64.8
64.9	64.90	64.73	64.56	64.39	64.22	64.05	63.88	63.71	63.54	63.36	63.19	64.9
65	65.00	64.83	64.66	64.49	64.32	64.15	63.98	63.81	63.64	63.47	63.29	65

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	
65	65.00	64.83	64.66	64.49	64.32	64.15	63.98	63.81	63.64	63.47	63.29	65
65.1	65.10	64.93	64.76	64.59	64.42	64.25	64.08	63.91	63.74	63.57	63.39	65.1
65.2	65.20	65.03	64.86	64.69	64.52	64.35	64.18	64.01	63.84	63.67	63.50	65.2
65.3	65.30	65.13	64.96	64.79	64.62	64.45	64.28	64.11	63.94	63.77	63.60	65.3
65.4	65.40	65.23	65.06	64.89	64.72	64.55	64.38	64.21	64.04	63.87	63.70	65.4
65.5	65.50	65.33	65.16	64.99	64.82	64.65	64.48	64.31	64.14	63.97	63.80	65.5
65.6	65.60	65.43	65.26	65.09	64.92	64.75	64.58	64.41	64.24	64.07	63.90	65.6
65.7	65.70	65.53	65.36	65.19	65.02	64.85	64.68	64.51	64.34	64.17	64.00	65.7
65.8	65.80	65.63	65.46	65.29	65.13	64.96	64.79	64.62	64.44	64.27	64.10	65.8
65.9	65.90	65.73	65.56	65.39	65.23	65.06	64.89	64.72	64.55	64.37	64.20	65.9
66	66.00	65.83	65.66	65.49	65.33	65.16	64.99	64.82	64.65	64.48	64.30	66
66.1	66.10	65.93	65.76	65.60	65.43	65.26	65.09	64.92	64.75	64.58	64.41	66.1
66.2	66.20	66.03	65.86	65.70	65.53	65.36	65.19	65.02	64.85	64.68	64.51	66.2
66.3	66.30	66.13	65.96	65.80	65.63	65.46	65.29	65.12	64.95	64.78	64.61	66.3
66.4	66.40	66.23	66.06	65.90	65.73	65.56	65.39	65.22	65.05	64.88	64.71	66.4
66.5	66.50	66.33	66.16	66.00	65.83	65.66	65.49	65.32	65.15	64.98	64.81	66.5
66.6	66.60	66.43	66.27	66.10	65.93	65.76	65.59	65.42	65.25	65.08	64.91	66.6
66.7	66.70	66.53	66.37	66.20	66.03	65.86	65.69	65.52	65.35	65.18	65.01	66.7
66.8	66.80	66.63	66.47	66.30	66.13	65.96	65.79	65.62	65.45	65.28	65.11	66.8
66.9	66.90	66.73	66.57	66.40	66.23	66.06	65.89	65.72	65.55	65.38	65.21	66.9
67	67.00	66.83	66.67	66.50	66.33	66.16	65.99	65.82	65.66	65.49	65.32	67
67.1	67.10	66.93	66.77	66.60	66.43	66.26	66.09	65.93	65.76	65.59	65.42	67.1
67.2	67.20	67.03	66.87	66.70	66.53	66.36	66.20	66.03	65.86	65.69	65.52	67.2
67.3	67.30	67.13	66.97	66.80	66.63	66.46	66.30	66.13	65.96	65.79	65.62	67.3
67.4	67.40	67.23	67.07	66.90	66.73	66.56	66.40	66.23	66.06	65.89	65.72	67.4
67.5	67.50	67.33	67.17	67.00	66.83	66.67	66.50	66.33	66.16	65.99	65.82	67.5
67.6	67.60	67.43	67.27	67.10	66.93	66.77	66.60	66.43	66.26	66.09	65.92	67.6
67.7	67.70	67.53	67.37	67.20	67.03	66.87	66.70	66.53	66.36	66.19	66.02	67.7
67.8	67.80	67.63	67.47	67.30	67.13	66.97	66.80	66.63	66.46	66.29	66.13	67.8
67.9	67.90	67.73	67.57	67.40	67.23	67.07	66.90	66.73	66.56	66.40	66.23	67.9
68	68.00	67.83	67.67	67.50	67.34	67.17	67.00	66.83	66.67	66.50	66.33	68
68.1	68.10	67.93	67.77	67.60	67.44	67.27	67.10	66.93	66.77	66.60	66.43	68.1
68.2	68.20	68.03	67.87	67.70	67.54	67.37	67.20	67.03	66.87	66.70	66.53	68.2
68.3	68.30	68.13	67.97	67.80	67.64	67.47	67.30	67.14	66.97	66.80	66.63	68.3
68.4	68.40	68.23	68.07	67.90	67.74	67.57	67.40	67.24	67.07	66.90	66.73	68.4
68.5	68.50	68.33	68.17	68.00	67.84	67.67	67.50	67.34	67.17	67.00	66.83	68.5
68.6	68.60	68.44	68.27	68.10	67.94	67.77	67.61	67.44	67.27	67.10	66.94	68.6
68.7	68.70	68.54	68.37	68.20	68.04	67.87	67.71	67.54	67.37	67.20	67.04	68.7
68.8	68.80	68.64	68.47	68.30	68.14	67.97	67.81	67.64	67.47	67.31	67.14	68.8
68.9	68.90	68.74	68.57	68.41	68.24	68.07	67.91	67.74	67.57	67.41	67.24	68.9
69	69.00	68.84	68.67	68.51	68.34	68.17	68.01	67.84	67.67	67.51	67.34	69
69.1	69.10	68.94	68.77	68.61	68.44	68.28	68.11	67.94	67.78	67.61	67.44	69.1
69.2	69.20	69.04	68.87	68.71	68.54	68.38	68.21	68.04	67.88	67.71	67.54	69.2
69.3	69.30	69.14	68.97	68.81	68.64	68.48	68.31	68.14	67.98	67.81	67.64	69.3
69.4	69.40	69.24	69.07	68.91	68.74	68.58	68.41	68.25	68.08	67.91	67.74	69.4
69.5	69.50	69.34	69.17	69.01	68.84	68.68	68.51	68.35	68.18	68.01	67.85	69.5
69.6	69.60	69.44	69.27	69.11	68.94	68.78	68.61	68.45	68.28	68.11	67.95	69.6
69.7	69.70	69.54	69.37	69.21	69.04	68.88	68.71	68.55	68.38	68.22	68.05	69.7
69.8	69.80	69.64	69.47	69.31	69.14	68.98	68.81	68.65	68.48	68.32	68.15	69.8
69.9	69.90	69.74	69.57	69.41	69.24	69.08	68.91	68.75	68.58	68.42	68.25	69.9
70	70.00	69.84	69.67	69.51	69.35	69.18	69.02	68.85	68.68	68.52	68.35	70

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	
18	16.57	16.42	16.28	16.13	15.99	15.84	15.69	15.55	15.40	15.25	15.11	18
18.1	16.66	16.51	16.37	16.22	16.08	15.93	15.78	15.64	15.49	15.34	15.19	18.1
18.2	16.75	16.61	16.46	16.32	16.17	16.02	15.87	15.73	15.58	15.43	15.28	18.2
18.3	16.85	16.70	16.55	16.41	16.26	16.11	15.96	15.82	15.67	15.52	15.37	18.3
18.4	16.94	16.79	16.65	16.50	16.35	16.20	16.06	15.91	15.76	15.61	15.46	18.4
18.5	17.03	16.89	16.74	16.59	16.44	16.29	16.15	16.00	15.85	15.70	15.55	18.5
18.6	17.13	16.98	16.83	16.68	16.53	16.39	16.24	16.09	15.94	15.79	15.64	18.6
18.7	17.22	17.07	16.92	16.78	16.63	16.48	16.33	16.18	16.03	15.88	15.73	18.7
18.8	17.32	17.17	17.02	16.87	16.72	16.57	16.42	16.27	16.12	15.97	15.81	18.8
18.9	17.41	17.26	17.11	16.96	16.81	16.66	16.51	16.36	16.21	16.05	15.90	18.9
19	17.50	17.35	17.20	17.05	16.90	16.75	16.60	16.45	16.30	16.14	15.99	19
19.1	17.60	17.45	17.29	17.14	16.99	16.84	16.69	16.54	16.38	16.23	16.08	19.1
19.2	17.69	17.54	17.39	17.24	17.08	16.93	16.78	16.63	16.47	16.32	16.17	19.2
19.3	17.78	17.63	17.48	17.33	17.18	17.02	16.87	16.72	16.56	16.41	16.26	19.3
19.4	17.88	17.73	17.57	17.42	17.27	17.11	16.96	16.81	16.65	16.50	16.35	19.4
19.5	17.97	17.82	17.67	17.52	17.36	17.20	17.05	16.90	16.74	16.59	16.44	19.5
19.6	18.07	17.91	17.76	17.60	17.45	17.30	17.14	16.99	16.83	16.68	16.52	19.6
19.7	18.16	18.01	17.85	17.70	17.54	17.39	17.23	17.08	16.92	16.77	16.61	19.7
19.8	18.25	18.10	17.94	17.79	17.63	17.48	17.32	17.17	17.01	16.86	16.70	19.8
19.9	18.35	18.19	18.04	17.88	17.73	17.57	17.41	17.26	17.10	16.95	16.79	19.9
20	18.44	18.29	18.13	17.97	17.82	17.66	17.50	17.35	17.19	17.04	16.88	20
20.1	18.53	18.38	18.22	18.07	17.91	17.75	17.60	17.44	17.28	17.12	16.97	20.1
20.2	18.63	18.47	18.31	18.16	18.00	17.84	17.69	17.53	17.37	17.21	17.06	20.2
20.3	18.72	18.57	18.41	18.25	18.09	17.93	17.78	17.62	17.46	17.30	17.15	20.3
20.4	18.82	18.66	18.50	18.34	18.18	18.03	17.87	17.71	17.55	17.39	17.23	20.4
20.5	18.91	18.75	18.59	18.43	18.28	18.12	17.96	17.80	17.64	17.48	17.32	20.5
20.6	19.00	18.85	18.69	18.53	18.37	18.21	18.05	17.89	17.73	17.57	17.41	20.6
20.7	19.10	18.94	18.78	18.62	18.46	18.30	18.14	17.98	17.82	17.66	17.50	20.7
20.8	19.19	19.03	18.87	18.71	18.55	18.39	18.23	18.07	17.91	17.75	17.59	20.8
20.9	19.29	19.13	18.97	18.80	18.64	18.48	18.32	18.16	18.00	17.84	17.68	20.9
21	19.38	19.22	19.06	18.90	18.74	18.57	18.41	18.25	18.09	17.93	17.77	21
21.1	19.47	19.31	19.15	18.99	18.83	18.67	18.50	18.34	18.18	18.02	17.86	21.1
21.2	19.57	19.41	19.24	19.08	18.92	18.76	18.60	18.43	18.27	18.11	17.95	21.2
21.3	19.66	19.50	19.34	19.17	19.01	18.85	18.69	18.52	18.36	18.20	18.04	21.3
21.4	19.76	19.59	19.43	19.27	19.10	18.94	18.78	18.61	18.45	18.29	18.13	21.4
21.5	19.85	19.69	19.52	19.36	19.20	19.03	18.87	18.71	18.54	18.38	18.22	21.5
21.6	19.95	19.78	19.62	19.45	19.29	19.12	18.96	18.80	18.63	18.47	18.30	21.6
21.7	20.04	19.87	19.71	19.55	19.38	19.22	19.05	18.89	18.72	18.56	18.39	21.7
21.8	20.13	19.97	19.80	19.64	19.47	19.31	19.14	18.98	18.81	18.65	18.48	21.8
21.9	20.23	20.06	19.90	19.73	19.56	19.40	19.23	19.07	18.90	18.74	18.57	21.9
22	20.32	20.16	19.99	19.82	19.66	19.49	19.33	19.16	18.99	18.83	18.66	22
22.1	20.42	20.25	20.08	19.92	19.75	19.58	19.42	19.25	19.08	18.92	18.75	22.1
22.2	20.51	20.34	20.18	20.01	19.84	19.68	19.51	19.34	19.17	19.01	18.84	22.2
22.3	20.61	20.44	20.27	20.10	19.93	19.77	19.60	19.43	19.27	19.10	18.93	22.3
22.4	20.70	20.53	20.36	20.20	20.03	19.86	19.69	19.52	19.36	19.19	19.02	22.4
22.5	20.80	20.63	20.46	20.29	20.12	19.95	19.78	19.61	19.45	19.28	19.11	22.5
22.6	20.89	20.72	20.55	20.38	20.21	20.04	19.87	19.71	19.54	19.37	19.20	22.6
22.7	20.98	20.81	20.64	20.47	20.30	20.14	19.97	19.80	19.63	19.46	19.29	22.7
22.8	21.08	20.91	20.74	20.57	20.40	20.23	20.06	19.89	19.72	19.55	19.38	22.8
22.9	21.17	21.00	20.83	20.66	20.49	20.32	20.15	19.98	19.81	19.64	19.47	22.9
23	21.27	21.10	20.93	20.75	20.58	20.41	20.24	20.07	19.90	19.73	19.56	23
23.1	21.36	21.19	21.02	20.85	20.68	20.50	20.33	20.16	19.99	19.82	19.65	23.1
23.2	21.46	21.29	21.11	20.94	20.77	20.60	20.43	20.25	20.08	19.91	19.74	23.2
23.3	21.55	21.38	21.21	21.03	20.86	20.69	20.52	20.35	20.17	20.00	19.83	23.3
23.4	21.65	21.47	21.30	21.13	20.95	20.78	20.61	20.44	20.27	20.09	19.92	23.4
23.5	21.74	21.57	21.39	21.22	21.05	20.87	20.70	20.53	20.36	20.18	20.01	23.5
23.6	21.84	21.66	21.49	21.31	21.14	20.97	20.79	20.62	20.45	20.28	20.10	23.6
23.7	21.93	21.76	21.58	21.41	21.23	21.06	20.89	20.71	20.54	20.37	20.19	23.7
23.8	22.03	21.85	21.68	21.50	21.33	21.15	20.98	20.80	20.63	20.46	20.28	23.8
23.9	22.12	21.95	21.77	21.60	21.42	21.25	21.07	20.90	20.72	20.55	20.37	23.9
24	22.22	22.04	21.87	21.69	21.51	21.34	21.16	20.99	20.81	20.64	20.47	24
24.1	22.31	22.14	21.96	21.78	21.61	21.43	21.26	21.08	20.91	20.73	20.56	24.1
24.2	22.41	22.23	22.05	21.88	21.70	21.52	21.35	21.17	21.00	20.82	20.65	24.2
24.3	22.50	22.33	22.15	21.97	21.79	21.62	21.44	21.26	21.09	20.91	20.74	24.3
24.4	22.60	22.42	22.24	22.06	21.89	21.71	21.53	21.36	21.18	21.00	20.83	24.4
24.5	22.69	22.52	22.34	22.16	21.98	21.80	21.63	21.45	21.27	21.10	20.92	24.5
24.6	22.79	22.61	22.43	22.25	22.07	21.90	21.72	21.54	21.36	21.19	21.01	24.6
24.7	22.88	22.71	22.53	22.35	22.17	21.99	21.81	21.63	21.46	21.28	21.10	24.7
24.8	22.98	22.80	22.62	22.44	22.26	22.08	21.90	21.73	21.55	21.37	21.19	24.8
24.9	23.08	22.90	22.72	22.54	22.36	22.18	22.00	21.82	21.64	21.46	21.29	24.9
25	23.17	22.99	22.81	22.63	22.45	22.27	22.09	21.91	21.73	21.55	21.38	25



表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	
25	23.17	22.99	22.81	22.63	22.45	22.27	22.09	21.91	21.73	21.55	21.38	25
25.1	23.27	23.09	22.90	22.72	22.54	22.36	22.18	22.00	21.83	21.65	21.47	25.1
25.2	23.36	23.18	23.00	22.82	22.64	22.46	22.28	22.10	21.92	21.74	21.56	25.2
25.3	23.46	23.28	23.09	22.91	22.73	22.55	22.37	22.19	22.01	21.83	21.65	25.3
25.4	23.55	23.37	23.19	23.01	22.83	22.64	22.46	22.28	22.10	21.92	21.74	25.4
25.5	23.65	23.47	23.28	23.10	22.92	22.74	22.56	22.38	22.20	22.01	21.83	25.5
25.6	23.75	23.56	23.38	23.20	23.01	22.83	22.65	22.47	22.29	22.11	21.93	25.6
25.7	23.84	23.66	23.47	23.29	23.11	22.93	22.74	22.56	22.38	22.20	22.02	25.7
25.8	23.94	23.75	23.57	23.39	23.20	23.02	22.84	22.66	22.47	22.29	22.11	25.8
25.9	24.03	23.85	23.66	23.48	23.30	23.11	22.93	22.75	22.57	22.38	22.20	25.9
26	24.13	23.94	23.76	23.58	23.39	23.21	23.03	22.84	22.66	22.48	22.30	26
26.1	24.23	24.04	23.86	23.67	23.49	23.30	23.12	22.94	22.75	22.57	22.39	26.1
26.2	24.32	24.14	23.95	23.77	23.58	23.40	23.21	23.03	22.85	22.66	22.48	26.2
26.3	24.42	24.23	24.05	23.86	23.68	23.49	23.31	23.12	22.94	22.76	22.57	26.3
26.4	24.51	24.33	24.14	23.96	23.77	23.59	23.40	23.22	23.03	22.85	22.66	26.4
26.5	24.61	24.42	24.24	24.05	23.87	23.68	23.49	23.31	23.13	22.94	22.76	26.5
26.6	24.71	24.52	24.33	24.15	23.96	23.77	23.59	23.40	23.22	23.03	22.85	26.6
26.7	24.80	24.62	24.43	24.24	24.06	23.87	23.68	23.50	23.31	23.13	22.94	26.7
26.8	24.90	24.71	24.52	24.34	24.15	23.96	23.78	23.59	23.41	23.22	23.04	26.8
26.9	25.00	24.81	24.62	24.43	24.25	24.06	23.87	23.69	23.50	23.31	23.13	26.9
27	25.09	24.90	24.72	24.53	24.34	24.15	23.97	23.78	23.59	23.41	23.22	27
27.1	25.19	25.00	24.81	24.62	24.44	24.25	24.06	23.87	23.69	23.50	23.32	27.1
27.2	25.29	25.10	24.91	24.72	24.53	24.34	24.16	23.97	23.78	23.59	23.41	27.2
27.3	25.38	25.19	25.00	24.81	24.63	24.44	24.25	24.06	23.88	23.69	23.50	27.3
27.4	25.48	25.29	25.10	24.91	24.72	24.53	24.34	24.16	23.97	23.78	23.59	27.4
27.5	25.58	25.39	25.20	25.01	24.82	24.63	24.44	24.25	24.06	23.88	23.69	27.5
27.6	25.67	25.48	25.29	25.10	24.91	24.72	24.53	24.35	24.16	23.97	23.78	27.6
27.7	25.77	25.58	25.39	25.20	25.01	24.82	24.63	24.44	24.25	24.06	23.88	27.7
27.8	25.87	25.68	25.48	25.29	25.10	24.91	24.72	24.54	24.35	24.16	23.97	27.8
27.9	25.96	25.77	25.58	25.39	25.20	25.01	24.82	24.63	24.44	24.25	24.06	27.9
28	26.06	25.87	25.68	25.49	25.30	25.10	24.91	24.72	24.54	24.35	24.16	28
28.1	26.16	25.97	25.77	25.58	25.39	25.20	25.01	24.82	24.63	24.44	24.25	28.1
28.2	26.25	26.06	25.87	25.68	25.49	25.30	25.11	24.91	24.72	24.53	24.35	28.2
28.3	26.35	26.16	25.97	25.77	25.58	25.39	25.20	25.01	24.82	24.63	24.44	28.3
28.4	26.45	26.26	26.06	25.87	25.68	25.49	25.30	25.10	24.91	24.72	24.53	28.4
28.5	26.55	26.35	26.16	25.97	25.78	25.58	25.39	25.20	25.01	24.82	24.63	28.5
28.6	26.64	26.45	26.26	26.06	25.87	25.68	25.49	25.30	25.10	24.91	24.72	28.6
28.7	26.74	26.55	26.35	26.16	25.97	25.77	25.58	25.39	25.20	25.01	24.82	28.7
28.8	26.84	26.64	26.45	26.26	26.06	25.87	25.68	25.49	25.29	25.10	24.91	28.8
28.9	26.94	26.74	26.55	26.35	26.16	25.97	25.77	25.58	25.39	25.20	25.01	28.9
29	27.03	26.84	26.64	26.45	26.26	26.06	25.87	25.68	25.48	25.29	25.10	29
29.1	27.13	26.94	26.74	26.55	26.35	26.16	25.97	25.77	25.58	25.39	25.20	29.1
29.2	27.23	27.03	26.84	26.64	26.45	26.26	26.06	25.87	25.68	25.48	25.29	29.2
29.3	27.33	27.13	26.94	26.74	26.55	26.35	26.16	25.96	25.77	25.58	25.39	29.3
29.4	27.42	27.23	27.03	26.84	26.64	26.45	26.25	26.06	25.87	25.67	25.48	29.4
29.5	27.52	27.33	27.13	26.93	26.74	26.55	26.35	26.16	25.96	25.77	25.58	29.5
29.6	27.62	27.42	27.23	27.03	26.84	26.64	26.45	26.25	26.06	25.87	25.67	29.6
29.7	27.72	27.52	27.32	27.13	26.93	26.74	26.54	26.35	26.15	25.96	25.77	29.7
29.8	27.82	27.62	27.42	27.23	27.03	26.84	26.64	26.45	26.25	26.06	25.86	29.8
29.9	27.91	27.72	27.52	27.32	27.13	26.93	26.74	26.54	26.35	26.15	25.96	29.9
30	28.01	27.81	27.62	27.42	27.22	27.03	26.83	26.64	26.44	26.25	26.05	30

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	
30	28.01	27.81	27.62	27.42	27.22	27.03	26.83	26.64	26.44	26.25	26.05	30
30.1	28.11	27.91	27.71	27.52	27.32	27.13	26.93	26.73	26.54	26.34	26.15	30.1
30.2	28.21	28.01	27.81	27.62	27.42	27.22	27.03	26.83	26.64	26.44	26.25	30.2
30.3	28.31	28.11	27.91	27.71	27.52	27.32	27.12	26.93	26.73	26.54	26.34	30.3
30.4	28.40	28.21	28.01	27.81	27.61	27.42	27.22	27.02	26.83	26.63	26.44	30.4
30.5	28.50	28.30	28.11	27.91	27.71	27.51	27.32	27.12	26.92	26.73	26.53	30.5
30.6	28.60	28.40	28.20	28.01	27.81	27.61	27.41	27.22	27.02	26.83	26.63	30.6
30.7	28.70	28.50	28.30	28.10	27.91	27.71	27.51	27.31	27.12	26.92	26.73	30.7
30.8	28.80	28.60	28.40	28.20	28.00	27.81	27.61	27.41	27.21	27.02	26.82	30.8
30.9	28.90	28.70	28.50	28.30	28.10	27.90	27.71	27.51	27.31	27.11	26.92	30.9
31	28.99	28.79	28.60	28.40	28.20	28.00	27.80	27.61	27.41	27.21	27.01	31
31.1	29.09	28.89	28.69	28.50	28.30	28.10	27.90	27.70	27.51	27.31	27.11	31.1
31.2	29.19	28.99	28.79	28.59	28.39	28.20	28.00	27.80	27.60	27.41	27.21	31.2
31.3	29.29	29.09	28.89	28.69	28.49	28.29	28.10	27.90	27.70	27.50	27.30	31.3
31.4	29.39	29.19	28.99	28.79	28.59	28.39	28.19	27.99	27.80	27.60	27.40	31.4
31.5	29.49	29.29	29.09	28.89	28.69	28.49	28.29	28.09	27.89	27.70	27.50	31.5
31.6	29.59	29.39	29.19	28.99	28.79	28.59	28.39	28.19	27.99	27.79	27.60	31.6
31.7	29.68	29.48	29.28	29.08	28.88	28.69	28.49	28.29	28.09	27.89	27.69	31.7
31.8	29.78	29.58	29.38	29.18	28.98	28.78	28.58	28.39	28.19	27.99	27.79	31.8
31.9	29.88	29.68	29.48	29.28	29.08	28.88	28.68	28.48	28.28	28.09	27.89	31.9
32	29.98	29.78	29.58	29.38	29.18	28.98	28.78	28.58	28.38	28.18	27.98	32
32.1	30.08	29.88	29.68	29.48	29.28	29.08	28.88	28.68	28.48	28.28	28.08	32.1
32.2	30.18	29.98	29.78	29.58	29.38	29.18	28.98	28.78	28.58	28.38	28.18	32.2
32.3	30.28	30.08	29.88	29.67	29.47	29.27	29.07	28.87	28.68	28.48	28.28	32.3
32.4	30.38	30.18	29.97	29.77	29.57	29.37	29.17	28.97	28.77	28.57	28.37	32.4
32.5	30.48	30.27	30.07	29.87	29.67	29.47	29.27	29.07	28.87	28.67	28.47	32.5
32.6	30.57	30.37	30.17	29.97	29.77	29.57	29.37	29.17	28.97	28.77	28.57	32.6
32.7	30.67	30.47	30.27	30.07	29.87	29.67	29.47	29.27	29.07	28.87	28.67	32.7
32.8	30.77	30.57	30.37	30.17	29.97	29.77	29.57	29.37	29.17	28.97	28.77	32.8
32.9	30.87	30.67	30.47	30.27	30.07	29.87	29.66	29.46	29.26	29.06	28.86	32.9
33	30.97	30.77	30.57	30.37	30.17	29.96	29.76	29.56	29.36	29.16	28.96	33
33.1	31.07	30.87	30.67	30.47	30.26	30.06	29.86	29.66	29.46	29.26	29.06	33.1
33.2	31.17	30.97	30.77	30.56	30.36	30.16	29.96	29.76	29.56	29.36	29.16	33.2
33.3	31.27	31.07	30.87	30.66	30.46	30.26	30.06	29.86	29.66	29.46	29.26	33.3
33.4	31.37	31.17	30.96	30.76	30.56	30.36	30.16	29.96	29.76	29.56	29.35	33.4
33.5	31.47	31.27	31.06	30.86	30.66	30.46	30.26	30.06	29.86	29.65	29.45	33.5
33.6	31.57	31.37	31.16	30.96	30.76	30.56	30.36	30.16	29.95	29.75	29.55	33.6
33.7	31.67	31.47	31.26	31.06	30.86	30.66	30.46	30.25	30.05	29.85	29.65	33.7
33.8	31.77	31.56	31.36	31.16	30.96	30.76	30.55	30.35	30.15	29.95	29.75	33.8
33.9	31.87	31.66	31.46	31.26	31.06	30.86	30.65	30.45	30.25	30.05	29.85	33.9
34	31.97	31.76	31.56	31.36	31.16	30.95	30.75	30.55	30.35	30.15	29.95	34
34.1	32.07	31.86	31.66	31.46	31.26	31.05	30.85	30.65	30.45	30.25	30.05	34.1
34.2	32.17	31.96	31.76	31.56	31.36	31.15	30.95	30.75	30.55	30.35	30.14	34.2
34.3	32.27	32.06	31.86	31.66	31.46	31.25	31.05	30.85	30.65	30.44	30.24	34.3
34.4	32.37	32.16	31.96	31.76	31.55	31.35	31.15	30.95	30.75	30.54	30.34	34.4
34.5	32.46	32.26	32.06	31.86	31.65	31.45	31.25	31.05	30.85	30.64	30.44	34.5
34.6	32.56	32.36	32.16	31.96	31.75	31.55	31.35	31.15	30.94	30.74	30.54	34.6
34.7	32.66	32.46	32.26	32.06	31.85	31.65	31.45	31.25	31.04	30.84	30.64	34.7
34.8	32.76	32.56	32.36	32.16	31.95	31.75	31.55	31.35	31.14	30.94	30.74	34.8
34.9	32.86	32.66	32.46	32.26	32.05	31.85	31.65	31.45	31.24	31.04	30.84	34.9
35	32.96	32.76	32.56	32.36	32.15	31.95	31.75	31.55	31.34	31.14	30.94	35

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	
35	32.96	32.76	32.56	32.36	32.15	31.95	31.75	31.55	31.34	31.14	30.94	35
35.1	33.06	32.86	32.66	32.46	32.25	32.05	31.85	31.64	31.44	31.24	31.04	35.1
35.2	33.16	32.96	32.76	32.56	32.35	32.15	31.95	31.74	31.54	31.34	31.14	35.2
35.3	33.26	33.06	32.86	32.66	32.45	32.25	32.05	31.84	31.64	31.44	31.24	35.3
35.4	33.36	33.16	32.96	32.76	32.55	32.35	32.15	31.94	31.74	31.54	31.34	35.4
35.5	33.46	33.26	33.06	32.86	32.65	32.45	32.25	32.04	31.84	31.64	31.44	35.5
35.6	33.56	33.36	33.16	32.96	32.75	32.55	32.35	32.14	31.94	31.74	31.54	35.6
35.7	33.66	33.46	33.26	33.06	32.85	32.65	32.45	32.24	32.04	31.84	31.64	35.7
35.8	33.76	33.56	33.36	33.16	32.96	32.75	32.55	32.34	32.14	31.94	31.74	35.8
35.9	33.87	33.66	33.46	33.26	33.05	32.85	32.65	32.44	32.24	32.04	31.84	35.9
36	33.97	33.76	33.56	33.36	33.15	32.95	32.75	32.54	32.34	32.14	31.94	36
36.1	34.07	33.86	33.66	33.46	33.25	33.05	32.85	32.64	32.44	32.24	32.04	36.1
36.2	34.17	33.96	33.76	33.56	33.35	33.15	32.95	32.74	32.54	32.34	32.14	36.2
36.3	34.27	34.06	33.86	33.66	33.45	33.25	33.05	32.84	32.64	32.44	32.24	36.3
36.4	34.37	34.16	33.96	33.76	33.55	33.35	33.15	32.95	32.74	32.54	32.34	36.4
36.5	34.47	34.26	34.06	33.86	33.65	33.45	33.25	33.05	32.84	32.64	32.44	36.5
36.6	34.57	34.36	34.16	33.96	33.76	33.55	33.35	33.15	32.94	32.74	32.54	36.6
36.7	34.67	34.46	34.26	34.06	33.86	33.65	33.45	33.25	33.04	32.84	32.64	36.7
36.8	34.77	34.57	34.36	34.16	33.96	33.75	33.55	33.35	33.14	32.94	32.74	36.8
36.9	34.87	34.67	34.46	34.26	34.06	33.85	33.65	33.45	33.24	33.04	32.84	36.9
37	34.97	34.77	34.56	34.36	34.16	33.95	33.75	33.55	33.34	33.14	32.94	37
37.1	35.07	34.87	34.66	34.46	34.26	34.05	33.85	33.65	33.45	33.24	33.04	37.1
37.2	35.17	34.97	34.76	34.56	34.36	34.16	33.95	33.75	33.55	33.34	33.14	37.2
37.3	35.27	35.07	34.86	34.66	34.46	34.26	34.05	33.85	33.65	33.44	33.24	37.3
37.4	35.37	35.17	34.97	34.76	34.56	34.36	34.15	33.95	33.75	33.54	33.34	37.4
37.5	35.47	35.27	35.07	34.86	34.66	34.46	34.25	34.05	33.85	33.65	33.44	37.5
37.6	35.57	35.37	35.17	34.96	34.76	34.56	34.36	34.15	33.95	33.75	33.54	37.6
37.7	35.67	35.47	35.27	35.06	34.86	34.66	34.46	34.25	34.05	33.85	33.64	37.7
37.8	35.77	35.57	35.37	35.17	34.96	34.76	34.56	34.35	34.15	33.95	33.75	37.8
37.9	35.87	35.67	35.47	35.27	35.06	34.86	34.66	34.45	34.25	34.05	33.85	37.9
38	35.98	35.77	35.57	35.37	35.16	34.96	34.76	34.56	34.35	34.15	33.95	38
38.1	36.08	35.87	35.67	35.47	35.27	35.06	34.86	34.66	34.45	34.25	34.05	38.1
38.2	36.18	35.97	35.77	35.57	35.37	35.16	34.96	34.76	34.55	34.35	34.15	38.2
38.3	36.28	36.07	35.87	35.67	35.47	35.26	35.06	34.86	34.66	34.45	34.25	38.3
38.4	36.38	36.18	35.97	35.77	35.57	35.37	35.16	34.96	34.76	34.55	34.35	38.4
38.5	36.48	36.28	36.07	35.87	35.67	35.47	35.26	35.06	34.86	34.66	34.45	38.5
38.6	36.58	36.38	36.17	35.97	35.77	35.57	35.36	35.16	34.96	34.76	34.55	38.6
38.7	36.68	36.48	36.28	36.07	35.87	35.67	35.47	35.26	35.06	34.86	34.66	38.7
38.8	36.78	36.58	36.38	36.17	35.97	35.77	35.57	35.36	35.16	34.96	34.76	38.8
38.9	36.88	36.68	36.48	36.28	36.07	35.87	35.67	35.47	35.26	35.06	34.86	38.9
39	36.98	36.78	36.58	36.38	36.17	35.97	35.77	35.57	35.36	35.16	34.96	39
39.1	37.08	36.88	36.68	36.48	36.28	36.07	35.87	35.67	35.47	35.26	35.06	39.1
39.2	37.18	36.98	36.78	36.58	36.38	36.17	35.97	35.77	35.57	35.36	35.16	39.2
39.3	37.29	37.08	36.88	36.68	36.48	36.28	36.07	35.87	35.67	35.47	35.26	39.3
39.4	37.39	37.18	36.98	36.78	36.58	36.38	36.17	35.97	35.77	35.57	35.37	39.4
39.5	37.49	37.29	37.08	36.88	36.68	36.48	36.28	36.07	35.87	35.67	35.47	39.5
39.6	37.59	37.39	37.19	36.98	36.78	36.58	36.38	36.18	35.97	35.77	35.57	39.6
39.7	37.69	37.49	37.29	37.08	36.88	36.68	36.48	36.28	36.07	35.87	35.67	39.7
39.8	37.79	37.59	37.39	37.19	36.98	36.78	36.58	36.38	36.18	35.97	35.77	39.8
39.9	37.89	37.69	37.49	37.29	37.09	36.88	36.68	36.48	36.28	36.08	35.87	39.9
40	37.99	37.79	37.59	37.39	37.19	36.98	36.78	36.58	36.38	36.18	35.97	40

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	
40	37.99	37.79	37.59	37.39	37.19	36.98	36.78	36.58	36.38	36.18	35.97	40
40.1	38.09	37.89	37.69	37.49	37.29	37.09	36.88	36.68	36.48	36.28	36.08	40.1
40.2	38.19	37.99	37.79	37.59	37.39	37.19	36.99	36.78	36.58	36.38	36.18	40.2
40.3	38.30	38.09	37.89	37.69	37.49	37.29	37.09	36.89	36.68	36.48	36.28	40.3
40.4	38.40	38.20	37.99	37.79	37.59	37.39	37.19	36.99	36.79	36.58	36.38	40.4
40.5	38.50	38.30	38.10	37.89	37.69	37.49	37.29	37.09	36.89	36.69	36.48	40.5
40.6	38.60	38.40	38.20	38.00	37.80	37.59	37.39	37.19	36.99	36.79	36.59	40.6
40.7	38.70	38.50	38.30	38.10	37.90	37.70	37.49	37.29	37.09	36.89	36.69	40.7
40.8	38.80	38.60	38.40	38.20	38.00	37.80	37.60	37.39	37.19	36.99	36.79	40.8
40.9	38.90	38.70	38.50	38.30	38.10	37.90	37.70	37.50	37.29	37.09	36.89	40.9
41	39.00	38.80	38.60	38.40	38.20	38.00	37.80	37.60	37.40	37.20	36.99	41
41.1	39.10	38.90	38.70	38.50	38.30	38.10	37.90	37.70	37.50	37.30	37.10	41.1
41.2	39.21	39.01	38.80	38.60	38.40	38.20	38.00	37.80	37.60	37.40	37.20	41.2
41.3	39.31	39.11	38.91	38.71	38.51	38.30	38.10	37.90	37.70	37.50	37.30	41.3
41.4	39.41	39.21	39.01	38.81	38.61	38.41	38.21	38.01	37.80	37.60	37.40	41.4
41.5	39.51	39.31	39.11	38.91	38.71	38.51	38.31	38.11	37.91	37.71	37.50	41.5
41.6	39.61	39.41	39.21	39.01	38.81	38.61	38.41	38.21	38.01	37.81	37.61	41.6
41.7	39.71	39.51	39.31	39.11	38.91	38.71	38.51	38.31	38.11	37.91	37.71	41.7
41.8	39.81	39.61	39.41	39.21	39.01	38.81	38.61	38.41	38.21	38.01	37.81	41.8
41.9	39.91	39.71	39.51	39.31	39.11	38.91	38.71	38.51	38.31	38.11	37.91	41.9
42	40.01	39.82	39.62	39.42	39.22	39.02	38.82	38.62	38.42	38.22	38.01	42
42.1	40.12	39.92	39.72	39.52	39.32	39.12	38.92	38.72	38.52	38.32	38.12	42.1
42.2	40.22	40.02	39.82	39.62	39.42	39.22	39.02	38.82	38.62	38.42	38.22	42.2
42.3	40.32	40.12	39.92	39.72	39.52	39.32	39.12	38.92	38.72	38.52	38.32	42.3
42.4	40.42	40.22	40.02	39.82	39.62	39.42	39.22	39.02	38.82	38.62	38.42	42.4
42.5	40.52	40.32	40.12	39.92	39.72	39.53	39.33	39.13	38.93	38.73	38.53	42.5
42.6	40.62	40.42	40.22	40.03	39.83	39.63	39.43	39.23	39.03	38.83	38.63	42.6
42.7	40.72	40.52	40.33	40.13	39.93	39.73	39.53	39.33	39.13	38.93	38.73	42.7
42.8	40.82	40.63	40.43	40.23	40.03	39.83	39.63	39.43	39.23	39.03	38.83	42.8
42.9	40.93	40.73	40.53	40.33	40.13	39.93	39.73	39.53	39.33	39.14	38.94	42.9
43	41.03	40.83	40.63	40.43	40.23	40.03	39.84	39.64	39.44	39.24	39.04	43
43.1	41.13	40.93	40.73	40.53	40.34	40.14	39.94	39.74	39.54	39.34	39.14	43.1
43.2	41.23	41.03	40.83	40.64	40.44	40.24	40.04	39.84	39.64	39.44	39.24	43.2
43.3	41.33	41.13	40.94	40.74	40.54	40.34	40.14	39.94	39.74	39.54	39.34	43.3
43.4	41.43	41.23	41.04	40.84	40.64	40.44	40.24	40.04	39.85	39.65	39.45	43.4
43.5	41.53	41.34	41.14	40.94	40.74	40.54	40.35	40.15	39.95	39.75	39.55	43.5
43.6	41.64	41.44	41.24	41.04	40.84	40.65	40.45	40.25	40.05	39.85	39.65	43.6
43.7	41.74	41.54	41.34	41.14	40.95	40.75	40.55	40.35	40.15	39.95	39.75	43.7
43.8	41.84	41.64	41.44	41.25	41.05	40.85	40.65	40.45	40.25	40.06	39.86	43.8
43.9	41.94	41.74	41.54	41.35	41.15	40.95	40.75	40.56	40.36	40.16	39.96	43.9
44	42.04	41.84	41.65	41.45	41.25	41.05	40.86	40.66	40.46	40.26	40.06	44
44.1	42.14	41.94	41.75	41.55	41.35	41.16	40.96	40.76	40.56	40.36	40.16	44.1
44.2	42.24	42.05	41.85	41.65	41.45	41.26	41.06	40.86	40.66	40.47	40.27	44.2
44.3	42.34	42.15	41.95	41.75	41.56	41.36	41.16	40.96	40.77	40.57	40.37	44.3
44.4	42.45	42.25	42.05	41.86	41.66	41.46	41.26	41.07	40.87	40.67	40.47	44.4
44.5	42.55	42.35	42.15	41.96	41.76	41.56	41.37	41.17	40.97	40.77	40.57	44.5
44.6	42.65	42.45	42.26	42.06	41.86	41.67	41.47	41.27	41.07	40.87	40.68	44.6
44.7	42.75	42.55	42.36	42.16	41.96	41.77	41.57	41.37	41.18	40.98	40.78	44.7
44.8	42.85	42.65	42.46	42.26	42.07	41.87	41.67	41.47	41.28	41.08	40.88	44.8
44.9	42.95	42.76	42.56	42.36	42.17	41.97	41.77	41.58	41.38	41.18	40.98	44.9
45	43.05	42.86	42.66	42.47	42.27	42.07	41.88	41.68	41.48	41.28	41.09	45

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	
45	43.05	42.86	42.66	42.47	42.27	42.07	41.88	41.68	41.48	41.28	41.09	45
45.1	43.16	42.96	42.76	42.57	42.37	42.17	41.98	41.78	41.58	41.39	41.19	45.1
45.2	43.26	43.06	42.87	42.67	42.47	42.28	42.08	41.88	41.69	41.49	41.29	45.2
45.3	43.36	43.16	42.97	42.77	42.57	42.38	42.18	41.99	41.79	41.59	41.39	45.3
45.4	43.46	43.26	43.07	42.87	42.68	42.48	42.28	42.09	41.89	41.69	41.50	45.4
45.5	43.56	43.37	43.17	42.97	42.78	42.58	42.39	42.19	41.99	41.80	41.60	45.5
45.6	43.66	43.47	43.27	43.08	42.88	42.68	42.49	42.29	42.10	41.90	41.70	45.6
45.7	43.76	43.57	43.37	43.18	42.98	42.79	42.59	42.39	42.20	42.00	41.81	45.7
45.8	43.86	43.67	43.47	43.28	43.08	42.89	42.69	42.50	42.30	42.10	41.91	45.8
45.9	43.97	43.77	43.58	43.38	43.19	42.99	42.80	42.60	42.40	42.21	42.01	45.9
46	44.07	43.87	43.68	43.48	43.29	43.09	42.90	42.70	42.51	42.31	42.11	46
46.1	44.17	43.97	43.78	43.58	43.39	43.19	43.00	42.80	42.61	42.41	42.22	46.1
46.2	44.27	44.08	43.88	43.69	43.49	43.30	43.10	42.91	42.71	42.51	42.32	46.2
46.3	44.37	44.18	43.98	43.79	43.59	43.40	43.20	43.01	42.81	42.62	42.42	46.3
46.4	44.47	44.28	44.08	43.89	43.70	43.50	43.31	43.11	42.91	42.72	42.52	46.4
46.5	44.57	44.38	44.19	43.99	43.80	43.60	43.41	43.21	43.02	42.82	42.63	46.5
46.6	44.68	44.48	44.29	44.09	43.90	43.70	43.51	43.31	43.12	42.92	42.73	46.6
46.7	44.78	44.58	44.39	44.20	44.00	43.81	43.61	43.42	43.22	43.03	42.83	46.7
46.8	44.88	44.68	44.49	44.30	44.10	43.91	43.71	43.52	43.32	43.13	42.93	46.8
46.9	44.98	44.79	44.59	44.40	44.20	44.01	43.82	43.62	43.43	43.23	43.04	46.9
47	45.08	44.89	44.69	44.50	44.31	44.11	43.92	43.72	43.53	43.33	43.14	47
47.1	45.18	44.99	44.80	44.60	44.41	44.21	44.02	43.83	43.63	43.44	43.24	47.1
47.2	45.28	45.09	44.90	44.70	44.51	44.32	44.12	43.93	43.73	43.54	43.34	47.2
47.3	45.38	45.19	45.00	44.81	44.61	44.42	44.22	44.03	43.84	43.64	43.45	47.3
47.4	45.49	45.29	45.10	44.91	44.71	44.52	44.33	44.13	43.94	43.74	43.55	47.4
47.5	45.59	45.39	45.20	45.01	44.82	44.62	44.43	44.24	44.04	43.85	43.65	47.5
47.6	45.69	45.50	45.30	45.11	44.92	44.72	44.53	44.34	44.14	43.95	43.75	47.6
47.7	45.79	45.60	45.41	45.21	45.02	44.83	44.63	44.44	44.25	44.05	43.86	47.7
47.8	45.89	45.70	45.51	45.31	45.12	44.93	44.74	44.54	44.35	44.15	43.96	47.8
47.9	45.99	45.80	45.61	45.42	45.22	45.03	44.84	44.64	44.45	44.26	44.06	47.9
48	46.09	45.90	45.71	45.52	45.33	45.13	44.94	44.75	44.55	44.36	44.17	48
48.1	46.20	46.00	45.81	45.62	45.43	45.23	45.04	44.85	44.66	44.46	44.27	48.1
48.2	46.30	46.11	45.91	45.72	45.53	45.34	45.14	44.95	44.76	44.56	44.37	48.2
48.3	46.40	46.21	46.02	45.82	45.63	45.44	45.25	45.05	44.86	44.67	44.47	48.3
48.4	46.50	46.31	46.12	45.92	45.73	45.54	45.35	45.16	44.96	44.77	44.58	48.4
48.5	46.60	46.41	46.22	46.03	45.83	45.64	45.45	45.26	45.06	44.87	44.68	48.5
48.6	46.70	46.51	46.32	46.13	45.94	45.74	45.55	45.36	45.17	44.97	44.78	48.6
48.7	46.80	46.61	46.42	46.23	46.04	45.85	45.65	45.46	45.27	45.08	44.88	48.7
48.8	46.90	46.71	46.52	46.33	46.14	45.95	45.76	45.56	45.37	45.18	44.99	48.8
48.9	47.01	46.82	46.62	46.43	46.24	46.05	45.86	45.67	45.47	45.28	45.09	48.9
49	47.11	46.92	46.73	46.54	46.34	46.15	45.96	45.77	45.58	45.38	45.19	49
49.1	47.21	47.02	46.83	46.64	46.45	46.25	46.06	45.87	45.68	45.49	45.29	49.1
49.2	47.31	47.12	46.93	46.74	46.55	46.36	46.16	45.97	45.78	45.59	45.40	49.2
49.3	47.41	47.22	47.03	46.84	46.65	46.46	46.27	46.08	45.88	45.69	45.50	49.3
49.4	47.51	47.32	47.13	46.94	46.75	46.56	46.37	46.18	45.99	45.79	45.60	49.4
49.5	47.61	47.42	47.23	47.04	46.85	46.66	46.47	46.28	46.09	45.90	45.70	49.5
49.6	47.72	47.53	47.34	47.15	46.95	46.76	46.57	46.38	46.19	46.00	45.81	49.6
49.7	47.82	47.63	47.44	47.25	47.06	46.87	46.68	46.48	46.29	46.10	45.91	49.7
49.8	47.92	47.73	47.54	47.35	47.16	46.97	46.78	46.59	46.40	46.20	46.01	49.8
49.9	48.02	47.83	47.64	47.45	47.26	47.07	46.88	46.69	46.50	46.31	46.11	49.9
50	48.12	47.93	47.74	47.55	47.36	47.17	46.98	46.79	46.60	46.41	46.22	50

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃										酒精度 % vol	
	25	25.5	26	26.5	27	27.5	28	28.5	29	29.5		30
50	48.12	47.93	47.74	47.55	47.36	47.17	46.98	46.79	46.60	46.41	46.22	50
50.1	48.22	48.03	47.84	47.65	47.46	47.27	47.08	46.89	46.70	46.51	46.32	50.1
50.2	48.32	48.13	47.94	47.76	47.57	47.38	47.19	46.99	46.80	46.61	46.42	50.2
50.3	48.42	48.24	48.05	47.86	47.67	47.48	47.29	47.10	46.91	46.72	46.52	50.3
50.4	48.53	48.34	48.15	47.96	47.77	47.58	47.39	47.20	47.01	46.82	46.63	50.4
50.5	48.63	48.44	48.25	48.06	47.87	47.68	47.49	47.30	47.11	46.92	46.73	50.5
50.6	48.73	48.54	48.35	48.16	47.97	47.78	47.59	47.40	47.21	47.02	46.83	50.6
50.7	48.83	48.64	48.45	48.26	48.07	47.89	47.70	47.51	47.32	47.13	46.94	50.7
50.8	48.93	48.74	48.55	48.37	48.18	47.99	47.80	47.61	47.42	47.23	47.04	50.8
50.9	49.03	48.84	48.66	48.47	48.28	48.09	47.90	47.71	47.52	47.33	47.14	50.9
51	49.13	48.95	48.76	48.57	48.38	48.19	48.00	47.81	47.62	47.43	47.24	51
51.1	49.23	49.05	48.86	48.67	48.48	48.29	48.10	47.91	47.72	47.54	47.35	51.1
51.2	49.34	49.15	48.96	48.77	48.58	48.39	48.21	48.02	47.83	47.64	47.45	51.2
51.3	49.44	49.25	49.06	48.87	48.69	48.50	48.31	48.12	47.93	47.74	47.55	51.3
51.4	49.54	49.35	49.16	48.98	48.79	48.60	48.41	48.22	48.03	47.84	47.65	51.4
51.5	49.64	49.45	49.26	49.08	48.89	48.70	48.51	48.32	48.13	47.94	47.76	51.5
51.6	49.74	49.55	49.37	49.18	48.99	48.80	48.61	48.42	48.24	48.05	47.86	51.6
51.7	49.84	49.66	49.47	49.28	49.09	48.90	48.72	48.53	48.34	48.15	47.96	51.7
51.8	49.94	49.76	49.57	49.38	49.19	49.01	48.82	48.63	48.44	48.25	48.06	51.8
51.9	50.04	49.86	49.67	49.48	49.30	49.11	48.92	48.73	48.54	48.35	48.16	51.9
52	50.15	49.96	49.77	49.58	49.40	49.21	49.02	48.83	48.64	48.46	48.27	52
52.1	50.25	50.06	49.87	49.69	49.50	49.31	49.12	48.94	48.75	48.56	48.37	52.1
52.2	50.35	50.16	49.98	49.79	49.60	49.41	49.23	49.04	48.85	48.66	48.47	52.2
52.3	50.45	50.26	50.08	49.89	49.70	49.52	49.33	49.14	48.95	48.76	48.57	52.3
52.4	50.55	50.36	50.18	49.99	49.80	49.62	49.43	49.24	49.05	48.87	48.68	52.4
52.5	50.65	50.47	50.28	50.09	49.91	49.72	49.53	49.34	49.16	48.97	48.78	52.5
52.6	50.75	50.57	50.38	50.19	50.01	49.82	49.63	49.45	49.26	49.07	48.88	52.6
52.7	50.85	50.67	50.48	50.30	50.11	49.92	49.74	49.55	49.36	49.17	48.98	52.7
52.8	50.96	50.77	50.58	50.40	50.21	50.02	49.84	49.65	49.46	49.27	49.09	52.8
52.9	51.06	50.87	50.69	50.50	50.31	50.13	49.94	49.75	49.56	49.38	49.19	52.9
53	51.16	50.97	50.79	50.60	50.41	50.23	50.04	49.85	49.67	49.48	49.29	53
53.1	51.26	51.07	50.89	50.70	50.52	50.33	50.14	49.96	49.77	49.58	49.39	53.1
53.2	51.36	51.18	50.99	50.80	50.62	50.43	50.24	50.06	49.87	49.68	49.50	53.2
53.3	51.46	51.28	51.09	50.91	50.72	50.53	50.35	50.16	49.97	49.79	49.60	53.3
53.4	51.56	51.38	51.19	51.01	50.82	50.64	50.45	50.26	50.08	49.89	49.70	53.4
53.5	51.66	51.48	51.29	51.11	50.92	50.74	50.55	50.36	50.18	49.99	49.80	53.5
53.6	51.77	51.58	51.40	51.21	51.02	50.84	50.65	50.47	50.28	50.09	49.91	53.6
53.7	51.87	51.68	51.50	51.31	51.13	50.94	50.75	50.57	50.38	50.20	50.01	53.7
53.8	51.97	51.78	51.60	51.41	51.23	51.04	50.86	50.67	50.48	50.30	50.11	53.8
53.9	52.07	51.88	51.70	51.51	51.33	51.14	50.96	50.77	50.59	50.40	50.21	53.9
54	52.17	51.99	51.80	51.62	51.43	51.25	51.06	50.87	50.69	50.50	50.32	54
54.1	52.27	52.09	51.90	51.72	51.53	51.35	51.16	50.98	50.79	50.60	50.42	54.1
54.2	52.37	52.19	52.00	51.82	51.63	51.45	51.26	51.08	50.89	50.71	50.52	54.2
54.3	52.47	52.29	52.11	51.92	51.74	51.55	51.37	51.18	50.99	50.81	50.62	54.3
54.4	52.58	52.39	52.21	52.02	51.84	51.65	51.47	51.28	51.10	50.91	50.72	54.4
54.5	52.68	52.49	52.31	52.12	51.94	51.75	51.57	51.38	51.20	51.01	50.83	54.5
54.6	52.78	52.59	52.41	52.23	52.04	51.86	51.67	51.49	51.30	51.11	50.93	54.6
54.7	52.88	52.70	52.51	52.33	52.14	51.96	51.77	51.59	51.40	51.22	51.03	54.7
54.8	52.98	52.80	52.61	52.43	52.24	52.06	51.87	51.69	51.50	51.32	51.13	54.8
54.9	53.08	52.90	52.71	52.53	52.35	52.16	51.98	51.79	51.61	51.42	51.24	54.9
55	53.18	53.00	52.82	52.63	52.45	52.26	52.08	51.89	51.71	51.52	51.34	55

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	
55	53.18	53.00	52.82	52.63	52.45	52.26	52.08	51.89	51.71	51.52	51.34	55
55.1	53.28	53.10	52.92	52.73	52.55	52.36	52.18	52.00	51.81	51.63	51.44	55.1
55.2	53.38	53.20	53.02	52.83	52.65	52.47	52.28	52.10	51.91	51.73	51.54	55.2
55.3	53.49	53.30	53.12	52.94	52.75	52.57	52.38	52.20	52.01	51.83	51.64	55.3
55.4	53.59	53.40	53.22	53.04	52.85	52.67	52.49	52.30	52.12	51.93	51.75	55.4
55.5	53.69	53.51	53.32	53.14	52.96	52.77	52.59	52.40	52.22	52.03	51.85	55.5
55.6	53.79	53.61	53.42	53.24	53.06	52.87	52.69	52.51	52.32	52.14	51.95	55.6
55.7	53.89	53.71	53.52	53.34	53.16	52.98	52.79	52.61	52.42	52.24	52.05	55.7
55.8	53.99	53.81	53.63	53.44	53.26	53.08	52.89	52.71	52.53	52.34	52.16	55.8
55.9	54.09	53.91	53.73	53.54	53.36	53.18	52.99	52.81	52.63	52.44	52.26	55.9
56	54.19	54.01	53.83	53.65	53.46	53.28	53.10	52.91	52.73	52.54	52.36	56
56.1	54.29	54.11	53.93	53.75	53.56	53.38	53.20	53.01	52.83	52.65	52.46	56.1
56.2	54.40	54.21	54.03	53.85	53.67	53.48	53.30	53.12	52.93	52.75	52.57	56.2
56.3	54.50	54.32	54.13	53.95	53.77	53.59	53.40	53.22	53.04	52.85	52.67	56.3
56.4	54.60	54.42	54.23	54.05	53.87	53.69	53.50	53.32	53.14	52.95	52.77	56.4
56.5	54.70	54.52	54.34	54.15	53.97	53.79	53.61	53.42	53.24	53.06	52.87	56.5
56.6	54.80	54.62	54.44	54.26	54.07	53.89	53.71	53.52	53.34	53.16	52.97	56.6
56.7	54.90	54.72	54.54	54.36	54.17	53.99	53.81	53.63	53.44	53.26	53.08	56.7
56.8	55.00	54.82	54.64	54.46	54.28	54.09	53.91	53.73	53.55	53.36	53.18	56.8
56.9	55.10	54.92	54.74	54.56	54.38	54.20	54.01	53.83	53.65	53.46	53.28	56.9
57	55.20	55.02	54.84	54.66	54.48	54.30	54.11	53.93	53.75	53.57	53.38	57
57.1	55.31	55.13	54.94	54.76	54.58	54.40	54.22	54.03	53.85	53.67	53.48	57.1
57.2	55.41	55.23	55.05	54.86	54.68	54.50	54.32	54.14	53.95	53.77	53.59	57.2
57.3	55.51	55.33	55.15	54.97	54.78	54.60	54.42	54.24	54.05	53.87	53.69	57.3
57.4	55.61	55.43	55.25	55.07	54.89	54.70	54.52	54.34	54.16	53.97	53.79	57.4
57.5	55.71	55.53	55.35	55.17	54.99	54.81	54.62	54.44	54.26	54.08	53.89	57.5
57.6	55.81	55.63	55.45	55.27	55.09	54.91	54.72	54.54	54.36	54.18	54.00	57.6
57.7	55.91	55.73	55.55	55.37	55.19	55.01	54.83	54.64	54.46	54.28	54.10	57.7
57.8	56.01	55.83	55.65	55.47	55.29	55.11	54.93	54.75	54.56	54.38	54.20	57.8
57.9	56.11	55.93	55.75	55.57	55.39	55.21	55.03	54.85	54.67	54.48	54.30	57.9
58	56.22	56.04	55.86	55.68	55.49	55.31	55.13	54.95	54.77	54.59	54.40	58
58.1	56.32	56.14	55.96	55.78	55.60	55.41	55.23	55.05	54.87	54.69	54.51	58.1
58.2	56.42	56.24	56.06	55.88	55.70	55.52	55.34	55.15	54.97	54.79	54.61	58.2
58.3	56.52	56.34	56.16	55.98	55.80	55.62	55.44	55.26	55.07	54.89	54.71	58.3
58.4	56.62	56.44	56.26	56.08	55.90	55.72	55.54	55.36	55.18	54.99	54.81	58.4
58.5	56.72	56.54	56.36	56.18	56.00	55.82	55.64	55.46	55.28	55.10	54.91	58.5
58.6	56.82	56.64	56.46	56.28	56.10	55.92	55.74	55.56	55.38	55.20	55.02	58.6
58.7	56.92	56.74	56.56	56.39	56.20	56.02	55.84	55.66	55.48	55.30	55.12	58.7
58.8	57.02	56.85	56.67	56.49	56.31	56.13	55.95	55.76	55.58	55.40	55.22	58.8
58.9	57.13	56.95	56.77	56.59	56.41	56.23	56.05	55.87	55.69	55.50	55.32	58.9
59	57.23	57.05	56.87	56.69	56.51	56.33	56.15	55.97	55.79	55.61	55.43	59
59.1	57.33	57.15	56.97	56.79	56.61	56.43	56.25	56.07	55.89	55.71	55.53	59.1
59.2	57.43	57.25	57.07	56.89	56.71	56.53	56.35	56.17	55.99	55.81	55.63	59.2
59.3	57.53	57.35	57.17	56.99	56.81	56.63	56.45	56.27	56.09	55.91	55.73	59.3
59.4	57.63	57.45	57.27	57.09	56.92	56.74	56.56	56.38	56.20	56.01	55.83	59.4
59.5	57.73	57.55	57.38	57.20	57.02	56.84	56.66	56.48	56.30	56.12	55.94	59.5
59.6	57.83	57.66	57.48	57.30	57.12	56.94	56.76	56.58	56.40	56.22	56.04	59.6
59.7	57.93	57.76	57.58	57.40	57.22	57.04	56.86	56.68	56.50	56.32	56.14	59.7
59.8	58.04	57.86	57.68	57.50	57.32	57.14	56.96	56.78	56.60	56.42	56.24	59.8
59.9	58.14	57.96	57.78	57.60	57.42	57.24	57.06	56.88	56.70	56.52	56.34	59.9
60	58.24	58.06	57.88	57.70	57.52	57.35	57.17	56.99	56.81	56.63	56.45	60

表 B.1 (续)

酒精度 % vol	酒精计温度 ℃											酒精度 % vol
	25	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	
60	58.24	58.06	57.88	57.70	57.52	57.35	57.17	56.99	56.81	56.63	56.45	60
60.1	58.34	58.16	57.98	57.80	57.63	57.45	57.27	57.09	56.91	56.73	56.55	60.1
60.2	58.44	58.26	58.08	57.91	57.73	57.55	57.37	57.19	57.01	56.83	56.65	60.2
60.3	58.54	58.36	58.19	58.01	57.83	57.65	57.47	57.29	57.11	56.93	56.75	60.3
60.4	58.64	58.46	58.29	58.11	57.93	57.75	57.57	57.39	57.21	57.03	56.85	60.4
60.5	58.74	58.57	58.39	58.21	58.03	57.85	57.67	57.50	57.32	57.14	56.96	60.5
60.6	58.84	58.67	58.49	58.31	58.13	57.96	57.78	57.60	57.42	57.24	57.06	60.6
60.7	58.95	58.77	58.59	58.41	58.24	58.06	57.88	57.70	57.52	57.34	57.16	60.7
60.8	59.05	58.87	58.69	58.51	58.34	58.16	57.98	57.80	57.62	57.44	57.26	60.8
60.9	59.15	58.97	58.79	58.62	58.44	58.26	58.08	57.90	57.72	57.54	57.37	60.9
61	59.25	59.07	58.89	58.72	58.54	58.36	58.18	58.00	57.83	57.65	57.47	61
61.1	59.35	59.17	59.00	58.82	58.64	58.46	58.29	58.11	57.93	57.75	57.57	61.1
61.2	59.45	59.27	59.10	58.92	58.74	58.56	58.39	58.21	58.03	57.85	57.67	61.2
61.3	59.55	59.38	59.20	59.02	58.84	58.67	58.49	58.31	58.13	57.95	57.77	61.3
61.4	59.65	59.48	59.30	59.12	58.95	58.77	58.59	58.41	58.23	58.05	57.88	61.4
61.5	59.75	59.58	59.40	59.22	59.05	58.87	58.69	58.51	58.34	58.16	57.98	61.5
61.6	59.86	59.68	59.50	59.33	59.15	58.97	58.79	58.62	58.44	58.26	58.08	61.6
61.7	59.96	59.78	59.60	59.43	59.25	59.07	58.90	58.72	58.54	58.36	58.18	61.7
61.8	60.06	59.88	59.71	59.53	59.35	59.17	59.00	58.82	58.64	58.46	58.28	61.8
61.9	60.16	59.98	59.81	59.63	59.45	59.28	59.10	58.92	58.74	58.56	58.39	61.9
62	60.26	60.08	59.91	59.73	59.55	59.38	59.20	59.02	58.85	58.67	58.49	62
62.1	60.36	60.19	60.01	59.83	59.66	59.48	59.30	59.12	58.95	58.77	58.59	62.1
62.2	60.46	60.29	60.11	59.93	59.76	59.58	59.40	59.23	59.05	58.87	58.69	62.2
62.3	60.56	60.39	60.21	60.04	59.86	59.68	59.51	59.33	59.15	58.97	58.79	62.3
62.4	60.66	60.49	60.31	60.14	59.96	59.78	59.61	59.43	59.25	59.08	58.90	62.4
62.5	60.77	60.59	60.41	60.24	60.06	59.89	59.71	59.53	59.35	59.18	59.00	62.5
62.6	60.87	60.69	60.52	60.34	60.16	59.99	59.81	59.63	59.46	59.28	59.10	62.6
62.7	60.97	60.79	60.62	60.44	60.27	60.09	59.91	59.74	59.56	59.38	59.20	62.7
62.8	61.07	60.89	60.72	60.54	60.37	60.19	60.01	59.84	59.66	59.48	59.31	62.8
62.9	61.17	60.99	60.82	60.64	60.47	60.29	60.12	59.94	59.76	59.59	59.41	62.9
63	61.27	61.10	60.92	60.75	60.57	60.39	60.22	60.04	59.86	59.69	59.51	63
63.1	61.37	61.20	61.02	60.85	60.67	60.50	60.32	60.14	59.97	59.79	59.61	63.1
63.2	61.47	61.30	61.12	60.95	60.77	60.60	60.42	60.24	60.07	59.89	59.71	63.2
63.3	61.57	61.40	61.22	61.05	60.87	60.70	60.52	60.35	60.17	59.99	59.82	63.3
63.4	61.68	61.50	61.33	61.15	60.98	60.80	60.62	60.45	60.27	60.10	59.92	63.4
63.5	61.78	61.60	61.43	61.25	61.08	60.90	60.73	60.55	60.37	60.20	60.02	63.5
63.6	61.88	61.70	61.53	61.35	61.18	61.00	60.83	60.65	60.48	60.30	60.12	63.6
63.7	61.98	61.80	61.63	61.46	61.28	61.11	60.93	60.75	60.58	60.40	60.22	63.7
63.8	62.08	61.91	61.73	61.56	61.38	61.21	61.03	60.86	60.68	60.50	60.33	63.8
63.9	62.18	62.01	61.83	61.66	61.48	61.31	61.13	60.96	60.78	60.61	60.43	63.9
64	62.28	62.11	61.93	61.76	61.59	61.41	61.24	61.06	60.88	60.71	60.53	64
64.1	62.38	62.21	62.04	61.86	61.69	61.51	61.34	61.16	60.99	60.81	60.63	64.1
64.2	62.48	62.31	62.14	61.96	61.79	61.61	61.44	61.26	61.09	60.91	60.74	64.2
64.3	62.59	62.41	62.24	62.06	61.89	61.72	61.54	61.37	61.19	61.01	60.84	64.3
64.4	62.69	62.51	62.34	62.17	61.99	61.82	61.64	61.47	61.29	61.12	60.94	64.4
64.5	62.79	62.61	62.44	62.27	62.09	61.92	61.74	61.57	61.39	61.22	61.04	64.5
64.6	62.89	62.72	62.54	62.37	62.19	62.02	61.85	61.67	61.50	61.32	61.14	64.6
64.7	62.99	62.82	62.64	62.47	62.30	62.12	61.95	61.77	61.60	61.42	61.25	64.7
64.8	63.09	62.92	62.74	62.57	62.40	62.22	62.05	61.87	61.70	61.52	61.35	64.8
64.9	63.19	63.02	62.85	62.67	62.50	62.33	62.15	61.98	61.80	61.63	61.45	64.9
65	63.29	63.12	62.95	62.77	62.60	62.43	62.25	62.08	61.90	61.73	61.55	65



表 B.1 (续)

酒精度 %vol	酒精计温度 ℃											酒精度 %vol
	25	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	
65	63.29	63.12	62.95	62.77	62.60	62.43	62.25	62.08	61.90	61.73	61.55	65
65.1	63.39	63.22	63.05	62.88	62.70	62.53	62.35	62.18	62.01	61.83	61.66	65.1
65.2	63.50	63.32	63.15	62.98	62.80	62.63	62.46	62.28	62.11	61.93	61.76	65.2
65.3	63.60	63.42	63.25	63.08	62.91	62.73	62.56	62.38	62.21	62.03	61.86	65.3
65.4	63.70	63.53	63.35	63.18	63.01	62.83	62.66	62.49	62.31	62.14	61.96	65.4
65.5	63.80	63.63	63.45	63.28	63.11	62.94	62.76	62.59	62.41	62.24	62.06	65.5
65.6	63.90	63.73	63.56	63.38	63.21	63.04	62.86	62.69	62.52	62.34	62.17	65.6
65.7	64.00	63.83	63.66	63.48	63.31	63.14	62.97	62.79	62.62	62.44	62.27	65.7
65.8	64.10	63.93	63.76	63.59	63.41	63.24	63.07	62.89	62.72	62.55	62.37	65.8
65.9	64.20	64.03	63.86	63.69	63.51	63.34	63.17	63.00	62.82	62.65	62.47	65.9
66	64.30	64.13	63.96	63.79	63.62	63.44	63.27	63.10	62.92	62.75	62.58	66
66.1	64.41	64.23	64.06	63.89	63.72	63.55	63.37	63.20	63.03	62.85	62.68	66.1
66.9	64.51	64.34	64.16	63.99	63.82	63.65	63.47	63.30	63.13	62.95	62.78	66.2
66.3	64.61	64.44	64.27	64.09	63.92	63.75	63.58	63.40	63.23	63.06	62.88	66.3
66.4	64.71	64.54	64.37	64.19	64.02	63.85	63.68	63.50	63.33	63.16	62.98	66.4
66.5	64.81	64.64	64.47	64.30	64.12	63.95	63.78	63.61	63.43	63.26	63.09	66.5
66.6	64.91	64.74	64.57	64.40	64.23	64.05	63.88	63.71	63.54	63.36	63.19	66.6
66.7	65.01	64.84	64.67	64.50	64.33	64.16	63.98	63.81	63.64	63.46	63.29	66.7
66.8	65.11	64.94	64.77	64.60	64.43	64.26	64.09	63.91	63.74	63.57	63.39	66.8
66.9	65.21	65.04	64.87	64.70	64.53	64.36	64.19	64.01	63.84	63.67	63.50	66.9
67	65.32	65.15	64.98	64.80	64.63	64.46	64.29	64.12	63.94	63.77	63.60	67
67.1	65.42	65.25	65.08	64.91	64.73	64.56	64.39	64.22	64.05	63.87	63.70	67.1
67.2	65.52	65.35	65.18	65.01	64.84	64.66	64.49	64.32	64.15	63.98	63.80	67.2
67.3	65.62	65.45	65.28	65.11	64.94	64.77	64.59	64.42	64.25	64.08	63.90	67.3
67.4	65.72	65.55	65.38	65.21	65.04	64.87	64.70	64.52	64.35	64.18	64.01	67.4
67.5	65.82	65.65	65.48	65.31	65.14	64.97	64.80	64.63	64.45	64.28	64.11	67.5
67.6	65.92	65.75	65.58	65.41	65.24	65.07	64.90	64.73	64.56	64.38	64.21	67.6
67.7	66.02	65.85	65.68	65.51	65.34	65.17	65.00	64.83	64.66	64.49	64.31	67.7
67.8	66.13	65.96	65.79	65.62	65.45	65.28	65.10	64.93	64.76	64.59	64.42	67.8
67.9	66.23	66.06	65.89	65.72	65.55	65.38	65.21	65.03	64.86	64.69	64.52	67.9
68	66.33	66.16	65.99	65.82	65.65	65.48	65.31	65.14	64.96	64.79	64.62	68
68.1	66.43	66.26	66.09	65.92	65.75	65.58	65.41	65.24	65.07	64.90	64.72	68.1
68.2	66.53	66.36	66.19	66.02	65.85	65.68	65.51	65.34	65.17	65.00	64.83	68.2
68.3	66.63	66.46	66.29	66.12	65.95	65.78	65.61	65.44	65.27	65.10	64.93	68.3
68.4	66.73	66.56	66.39	66.23	66.06	65.89	65.72	65.54	65.37	65.20	65.03	68.4
68.5	66.83	66.67	66.50	66.33	66.16	65.99	65.82	65.65	65.48	65.30	65.13	68.5
68.6	66.94	66.77	66.60	66.43	66.26	66.09	65.92	65.75	65.58	65.41	65.24	68.6
68.7	67.04	66.87	66.70	66.53	66.36	66.19	66.02	65.85	65.68	65.51	65.34	68.7
68.8	67.14	66.97	66.80	66.63	66.46	66.29	66.12	65.95	65.78	65.61	65.44	68.8
68.9	67.24	67.07	66.90	66.73	66.56	66.39	66.22	66.05	65.88	65.71	65.54	68.9
69	67.34	67.17	67.00	66.83	66.67	66.50	66.33	66.16	65.99	65.82	65.64	69
69.1	67.44	67.27	67.11	66.94	66.77	66.60	66.43	66.26	66.09	65.92	65.75	69.1
69.2	67.54	67.37	67.21	67.04	66.87	66.70	66.53	66.36	66.19	66.02	65.85	69.2
69.3	67.64	67.48	67.31	67.14	66.97	66.80	66.63	66.46	66.29	66.12	65.95	69.3
69.4	67.74	67.58	67.41	67.24	67.07	66.90	66.73	66.56	66.40	66.22	66.05	69.4
69.5	67.85	67.68	67.51	67.34	67.17	67.01	66.84	66.67	66.50	66.33	66.16	69.5
69.6	67.95	67.78	67.61	67.44	67.28	67.11	66.94	66.77	66.60	66.43	66.26	69.6
69.7	68.05	67.88	67.71	67.55	67.38	67.21	67.04	66.87	66.70	66.53	66.36	69.7
69.8	68.15	67.98	67.82	67.65	67.48	67.31	67.14	66.97	66.80	66.63	66.46	69.8
69.9	68.25	68.08	67.92	67.75	67.58	67.41	67.24	67.08	66.91	66.74	66.57	69.9
70	68.35	68.19	68.02	67.85	67.68	67.51	67.35	67.18	67.01	66.84	66.67	70

表 B.1 (续)

酒精度 %vol	酒精计温度 ℃										酒精度 %vol	
	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5		35
18	15.11	14.96	14.81	14.66	14.51	14.37	14.22	14.07	13.92	13.77	13.62	18
18.1	15.19	15.05	14.90	14.75	14.60	14.45	14.30	14.15	14.00	13.85	13.70	18.1
18.2	15.28	15.13	14.99	14.84	14.69	14.54	14.39	14.24	14.09	13.94	13.79	18.2
18.3	15.37	15.22	15.07	14.92	14.77	14.63	14.48	14.33	14.17	14.02	13.87	18.3
18.4	15.46	15.31	15.16	15.01	14.86	14.71	14.56	14.41	14.26	14.11	13.96	18.4
18.5	15.55	15.40	15.25	15.10	14.95	14.80	14.65	14.50	14.35	14.19	14.04	18.5
18.6	15.64	15.49	15.34	15.19	15.04	14.88	14.73	14.58	14.43	14.28	14.13	18.6
18.7	15.73	15.58	15.42	15.27	15.12	14.97	14.82	14.67	14.52	14.36	14.21	18.7
18.8	15.81	15.66	15.51	15.36	15.21	15.06	14.91	14.75	14.60	14.45	14.30	18.8
18.9	15.90	15.75	15.60	15.45	15.30	15.14	14.99	14.84	14.69	14.53	14.38	18.9
19	15.99	15.84	15.69	15.54	15.38	15.23	15.08	14.92	14.77	14.62	14.47	19
19.1	16.08	15.93	15.78	15.62	15.47	15.32	15.16	15.01	14.86	14.70	14.55	19.1
19.2	16.17	16.02	15.86	15.71	15.56	15.40	15.25	15.10	14.94	14.79	14.63	19.2
19.3	16.26	16.10	15.95	15.80	15.64	15.49	15.34	15.18	15.03	14.87	14.72	19.3
19.4	16.35	16.28	16.04	15.88	15.73	15.58	15.42	15.27	15.11	14.96	14.80	19.4
19.5	16.44	16.28	16.13	15.97	15.82	15.66	15.51	15.35	15.20	15.04	14.89	19.5
19.6	16.52	16.37	16.21	16.06	15.90	15.75	15.59	15.44	15.28	15.13	14.97	19.6
19.7	16.61	16.46	16.30	16.15	15.99	15.84	15.68	15.53	15.37	15.21	15.06	19.7
19.8	16.70	16.55	16.39	16.23	16.08	15.92	15.77	15.61	15.45	15.30	15.14	19.8
19.9	16.79	16.63	16.48	16.32	16.17	16.01	15.85	15.70	15.54	15.38	15.23	19.9
20	16.88	16.72	16.57	16.41	16.25	16.10	15.94	15.78	15.63	15.47	15.31	20
20.1	16.97	16.81	16.65	16.50	16.34	16.18	16.03	15.87	15.71	15.55	15.40	20.1
20.2	17.06	16.90	16.74	16.58	16.43	16.27	16.11	15.95	15.80	15.64	15.48	20.2
20.3	17.15	16.99	16.83	16.67	16.51	16.36	16.20	16.04	15.88	15.72	15.57	20.3
20.4	17.23	17.08	16.92	16.76	16.60	16.44	16.28	16.13	15.97	15.81	15.65	20.4
20.5	17.32	17.17	17.01	16.85	16.69	16.53	16.37	16.21	16.05	15.89	15.74	20.5
20.6	17.41	17.25	17.09	16.94	16.78	16.62	16.46	16.30	16.14	15.98	15.82	20.6
20.7	17.50	17.34	17.18	17.02	16.86	16.70	16.54	16.38	16.22	16.07	15.91	20.7
20.8	17.59	17.43	17.27	17.11	16.95	16.79	16.63	16.47	16.31	16.15	15.99	20.8
20.9	17.68	17.52	17.36	17.20	17.04	16.88	16.72	16.56	16.40	16.24	16.08	20.9
21	17.77	17.61	17.45	17.29	17.13	16.96	16.80	16.64	16.48	16.32	16.16	21
21.1	17.86	17.70	17.54	17.37	17.21	17.05	16.89	16.73	16.57	16.41	16.25	21.1
21.2	17.95	17.79	17.62	17.46	17.30	17.14	16.98	16.82	16.65	16.49	16.33	21.2
21.3	18.04	17.87	17.71	17.55	17.39	17.23	17.06	16.90	16.74	16.58	16.42	21.3
21.4	18.13	17.96	17.80	17.64	17.48	17.31	17.15	16.99	16.83	16.66	16.50	21.4
21.5	18.22	18.05	17.89	17.73	17.56	17.40	17.24	17.07	16.91	16.75	16.59	21.5
21.6	18.30	18.14	17.98	17.81	17.65	17.49	17.32	17.16	17.00	16.83	16.67	21.6
21.7	18.39	18.23	18.07	17.90	17.74	17.57	17.41	17.25	17.08	16.92	16.76	21.7
21.8	18.48	18.32	18.15	17.99	17.83	17.66	17.50	17.33	17.17	17.01	16.84	21.8
21.9	18.57	18.41	18.24	18.08	17.91	17.75	17.58	17.42	17.26	17.09	16.93	21.9
22	18.66	18.50	18.33	18.17	18.00	17.84	17.67	17.51	17.34	17.18	17.01	22
22.1	18.75	18.59	18.42	18.26	18.09	17.92	17.76	17.59	17.43	17.26	17.10	22.1
22.2	18.84	18.68	18.51	18.34	18.18	18.01	17.85	17.68	17.52	17.35	17.18	22.2
22.3	18.93	18.76	18.60	18.43	18.27	18.10	17.93	17.77	17.60	17.44	17.27	22.3
22.4	19.02	18.85	18.69	18.52	18.35	18.19	18.02	17.85	17.69	17.52	17.36	22.4
22.5	19.11	18.94	18.78	18.61	18.44	18.27	18.11	17.94	17.77	17.61	17.44	22.5
22.6	19.20	19.03	18.87	18.70	18.53	18.36	18.20	18.03	17.86	17.69	17.53	22.6
22.7	19.29	19.12	18.95	18.79	18.62	18.45	18.28	18.12	17.95	17.78	17.61	22.7
22.8	19.38	19.21	19.04	18.87	18.71	18.54	18.37	18.20	18.03	17.87	17.70	22.8
22.9	19.47	19.30	19.13	18.96	18.79	18.63	18.46	18.29	18.12	17.95	17.79	22.9
23	19.56	19.39	19.22	19.05	18.88	18.71	18.55	18.38	18.21	18.04	17.87	23
23.1	19.65	19.48	19.31	19.14	18.97	18.80	18.63	18.46	18.30	18.13	17.96	23.1
23.2	19.74	19.57	19.40	19.23	19.06	18.89	18.72	18.55	18.38	18.21	18.04	23.2
23.3	19.83	19.66	19.49	19.32	19.15	18.98	18.81	18.64	18.47	18.30	18.13	23.3
23.4	19.92	19.75	19.58	19.41	19.24	19.07	18.90	18.73	18.56	18.39	18.22	23.4
23.5	20.01	19.84	19.67	19.50	19.33	19.16	18.98	18.81	18.64	18.47	18.30	23.5
23.6	20.10	19.93	19.76	19.59	19.42	19.24	19.07	18.90	18.73	18.56	18.39	23.6
23.7	20.19	20.02	19.85	19.68	19.50	19.33	19.16	18.99	18.82	18.65	18.48	23.7
23.8	20.28	20.11	19.94	19.77	19.59	19.42	19.25	19.08	18.91	18.73	18.56	23.8
23.9	20.37	20.20	20.03	19.85	19.68	19.51	19.34	19.17	18.99	18.82	18.65	23.9
24	20.47	20.29	20.12	19.94	19.77	19.60	19.43	19.25	19.08	18.91	18.74	24
24.1	20.56	20.38	20.21	20.03	19.86	19.69	19.51	19.34	19.17	19.00	18.82	24.1
24.2	20.65	20.47	20.30	20.12	19.95	19.78	19.60	19.43	19.26	19.08	18.91	24.2
24.3	20.74	20.56	20.39	20.21	20.04	19.86	19.69	19.52	19.34	19.17	19.00	24.3
24.4	20.83	20.65	20.48	20.30	20.13	19.95	19.78	19.61	19.43	19.26	19.08	24.4
24.5	20.92	20.74	20.57	20.39	20.22	20.04	19.87	19.69	19.52	19.35	19.17	24.5
24.6	21.01	20.83	20.66	20.48	20.31	20.13	19.96	19.78	19.61	19.43	19.26	24.6
24.7	21.10	20.93	20.75	20.57	20.40	20.22	20.05	19.87	19.70	19.52	19.35	24.7
24.8	21.19	21.02	20.84	20.66	20.49	20.31	20.13	19.96	19.78	19.61	19.43	24.8
24.9	21.29	21.11	20.93	20.75	20.58	20.40	20.22	20.05	19.87	19.70	19.52	24.9

表 B.1 (续)

酒精度 %vol	酒精计温度 ℃											酒精度 %vol
	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5	35	
25	21.38	21.20	21.02	20.84	20.67	20.49	20.31	20.14	19.96	19.79	19.61	25
25.1	21.47	21.29	21.11	20.93	20.76	20.58	20.40	20.23	20.05	19.87	19.70	25.1
25.2	21.56	21.38	21.20	21.02	20.85	20.67	20.49	20.31	20.14	19.96	19.79	25.2
25.3	21.65	21.47	21.29	21.11	20.94	20.76	20.58	20.40	20.23	20.05	19.87	25.3
25.4	21.74	21.56	21.38	21.21	21.03	20.85	20.67	20.49	20.32	20.14	19.96	25.4
25.5	21.83	21.66	21.48	21.30	21.12	20.94	20.76	20.58	20.40	20.23	20.05	25.5
25.6	21.93	21.75	21.57	21.39	21.21	21.03	20.85	20.67	20.49	20.32	20.14	25.6
25.7	22.02	21.84	21.66	21.48	21.30	21.12	20.94	20.76	20.58	20.40	20.23	25.7
25.8	22.11	21.93	21.75	21.57	21.39	21.21	21.03	20.85	20.67	20.49	20.31	25.8
25.9	22.20	22.02	21.84	21.66	21.48	21.30	21.12	20.94	20.76	20.58	20.40	25.9
26	22.30	22.11	21.93	21.75	21.57	21.39	21.21	21.03	20.85	20.67	20.49	26
26.1	22.39	22.21	22.02	21.84	21.66	21.48	21.30	21.12	20.94	20.76	20.58	26.1
26.2	22.48	22.30	22.12	21.93	21.75	21.57	21.39	21.21	21.03	20.85	20.67	26.2
26.3	22.57	22.39	22.21	22.02	21.84	21.66	21.48	21.30	21.12	20.94	20.76	26.3
26.4	22.66	22.48	22.30	22.12	21.93	21.75	21.57	21.39	21.21	21.03	20.85	26.4
26.5	22.76	22.57	22.39	22.21	22.03	21.84	21.66	21.48	21.30	21.12	20.94	26.5
26.6	22.85	22.67	22.48	22.30	22.12	21.93	21.75	21.57	21.39	21.21	21.03	26.6
26.7	22.94	22.76	22.57	22.39	22.21	22.03	21.84	21.66	21.48	21.30	21.12	26.7
26.8	23.04	22.85	22.67	22.48	22.30	22.12	21.93	21.75	21.57	21.39	21.20	26.8
26.9	23.13	22.94	22.76	22.58	22.39	22.21	22.02	21.84	21.66	21.48	21.29	26.9
27	23.22	23.04	22.85	22.67	22.48	22.30	22.12	21.93	21.75	21.57	21.38	27
27.1	23.32	23.13	22.94	22.76	22.57	22.39	22.21	22.02	21.84	21.66	21.47	27.1
27.2	23.41	23.22	23.04	22.85	22.67	22.48	22.30	22.11	21.93	21.75	21.56	27.2
27.3	23.50	23.32	23.13	22.94	22.76	22.57	22.39	22.20	22.02	21.84	21.65	27.3
27.4	23.59	23.41	23.22	23.04	22.85	22.67	22.48	22.30	22.11	21.93	21.74	27.4
27.5	23.69	23.50	23.31	23.13	22.94	22.76	22.57	22.39	22.20	22.02	21.83	27.5
27.6	23.78	23.59	23.41	23.22	23.03	22.85	22.66	22.48	22.29	22.11	21.92	27.6
27.7	23.88	23.69	23.50	23.31	23.13	22.94	22.76	22.57	22.38	22.20	22.01	27.7
27.8	23.97	23.78	23.59	23.41	23.22	23.03	22.85	22.66	22.48	22.29	22.11	27.8
27.9	24.06	23.88	23.69	23.50	23.31	23.13	22.94	22.75	22.57	22.38	22.20	27.9
28	24.16	23.97	23.78	23.59	23.40	23.22	23.03	22.84	22.66	22.47	22.29	28
28.1	24.25	24.06	23.87	23.69	23.50	23.31	23.12	22.94	22.75	22.56	22.38	28.1
28.2	24.35	24.16	23.97	23.78	23.59	23.40	23.22	23.03	22.84	22.65	22.47	28.2
28.3	24.44	24.25	24.06	23.87	23.68	23.50	23.31	23.12	22.93	22.75	22.56	28.3
28.4	24.53	24.34	24.15	23.97	23.78	23.59	23.40	23.21	23.02	22.84	22.65	28.4
28.5	24.63	24.44	24.25	24.06	23.87	23.68	23.49	23.30	23.12	22.93	22.74	28.5
28.6	24.72	24.53	24.34	24.15	23.96	23.77	23.59	23.40	23.21	23.02	22.83	28.6
28.7	24.82	24.63	24.44	24.25	24.06	23.87	23.68	23.49	23.30	23.11	22.93	28.7
28.8	24.91	24.72	24.53	24.34	24.15	23.96	23.77	23.58	23.39	23.20	23.02	28.8
28.9	25.01	24.82	24.62	24.43	24.24	24.05	23.86	23.67	23.49	23.30	23.11	28.9
29	25.10	24.91	24.72	24.53	24.34	24.15	23.96	23.77	23.58	23.39	23.20	29
29.1	25.20	25.00	24.81	24.62	24.43	24.24	24.05	23.86	23.67	23.48	23.29	29.1
29.2	25.29	25.10	24.91	24.72	24.52	24.33	24.14	23.95	23.76	23.57	23.38	29.2
29.3	25.39	25.19	25.00	24.81	24.62	24.43	24.24	24.05	23.86	23.67	23.48	29.3
29.4	25.48	25.29	25.10	24.90	24.71	24.52	24.33	24.14	23.95	23.76	23.57	29.4
29.5	25.58	25.38	25.19	25.00	24.81	24.62	24.42	24.23	24.04	23.85	23.66	29.5
29.6	25.67	25.48	25.29	25.09	24.90	24.71	24.52	24.33	24.14	23.94	23.75	29.6
29.7	25.77	25.57	25.38	25.19	25.00	24.80	24.61	24.42	24.23	24.04	23.85	29.7
29.8	25.86	25.67	25.48	25.28	25.09	24.90	24.71	24.51	24.32	24.13	23.94	29.8
29.9	25.96	25.76	25.57	25.38	25.18	24.99	24.80	24.61	24.42	24.22	24.03	29.9
30	26.05	25.86	25.67	25.47	25.28	25.09	24.89	24.70	24.51	24.32	24.13	30

表 B.1 (续)

酒精度 %vol	酒精计温度 ℃											酒精度 %vol
	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5	35	
30	26.05	25.86	25.67	25.47	25.28	25.09	24.89	24.70	24.51	24.32	24.13	30
30.1	26.15	25.96	25.76	25.57	25.37	25.18	24.99	24.80	24.60	24.41	24.22	30.1
30.2	26.25	26.05	25.86	25.66	25.47	25.28	25.08	24.89	24.70	24.50	24.31	30.2
30.3	26.34	26.15	25.95	25.76	25.56	25.37	25.18	24.98	24.79	24.60	24.41	30.3
30.4	26.44	26.24	26.05	25.85	25.66	25.46	25.27	25.08	24.88	24.69	24.50	30.4
30.5	26.53	26.34	26.14	25.95	25.75	25.56	25.37	25.17	24.98	24.79	24.59	30.5
30.6	26.63	26.43	26.24	26.04	25.85	25.65	25.46	25.27	25.07	24.88	24.69	30.6
30.7	26.73	26.53	26.33	26.14	25.94	25.75	25.56	25.36	25.17	24.97	24.78	30.7
30.8	26.82	26.63	26.43	26.23	26.04	25.84	25.65	25.46	25.26	25.07	24.87	30.8
30.9	26.92	26.72	26.53	26.33	26.14	25.94	25.75	25.55	25.36	25.16	24.97	30.9
31	27.01	26.82	26.62	26.43	26.23	26.04	25.84	25.65	25.45	25.26	25.06	31
31.1	27.11	26.91	26.72	26.52	26.33	26.13	25.94	25.74	25.55	25.35	25.16	31.1
31.2	27.21	27.01	26.81	26.62	26.42	26.23	26.03	25.84	25.64	25.45	25.25	31.2
31.3	27.30	27.11	26.91	26.71	26.52	26.32	26.13	25.93	25.74	25.54	25.35	31.3
31.4	27.40	27.20	27.01	26.81	26.61	26.42	26.22	26.03	25.83	25.64	25.44	31.4
31.5	27.50	27.30	27.10	26.91	26.71	26.51	26.32	26.12	25.93	25.73	25.54	31.5
31.6	27.60	27.40	27.20	27.00	26.81	26.61	26.41	26.22	26.02	25.83	25.63	31.6
31.7	27.69	27.49	27.30	27.10	26.90	26.71	26.51	26.31	26.12	25.92	25.73	31.7
31.8	27.79	27.59	27.39	27.20	27.00	26.80	26.61	26.41	26.21	26.02	25.82	31.8
31.9	27.89	27.69	27.49	27.29	27.10	26.90	26.70	26.50	26.31	26.11	25.92	31.9
32	27.98	27.79	27.59	27.39	27.19	26.99	26.80	26.60	26.40	26.21	26.01	32
32.1	28.08	27.88	27.68	27.49	27.29	27.09	26.89	26.70	26.50	26.30	26.11	32.1
32.2	28.18	27.98	27.78	27.58	27.39	27.19	26.99	26.79	26.60	26.40	26.20	32.2
32.3	28.28	28.08	27.88	27.68	27.48	27.28	27.09	26.89	26.69	26.50	26.30	32.3
32.4	28.37	28.18	27.98	27.78	27.58	27.38	27.18	26.99	26.79	26.59	26.39	32.4
32.5	28.47	28.27	28.07	27.88	27.68	27.48	27.28	27.08	26.88	26.69	26.49	32.5
32.6	28.57	28.37	28.17	27.97	27.77	27.58	27.38	27.18	26.98	26.78	26.59	32.6
32.7	28.67	28.47	28.27	28.07	27.87	27.67	27.47	27.28	27.08	26.88	26.68	32.7
32.8	28.77	28.57	28.37	28.17	27.97	27.77	27.57	27.37	27.17	26.98	26.78	32.8
32.9	28.86	28.66	28.46	28.26	28.07	27.87	27.67	27.47	27.27	27.07	26.87	32.9
33	28.96	28.76	28.56	28.36	28.16	27.96	27.77	27.57	27.37	27.17	26.97	33
33.1	29.06	28.86	28.66	28.46	28.26	28.06	27.86	27.66	27.46	27.27	27.07	33.1
33.2	29.16	28.96	28.76	28.56	28.36	28.16	27.96	27.76	27.56	27.36	27.16	33.2
33.3	29.26	29.06	28.86	28.66	28.46	28.26	28.06	27.86	27.66	27.46	27.26	33.3
33.4	29.35	29.15	28.95	28.75	28.55	28.35	28.15	27.96	27.76	27.56	27.36	33.4
33.5	29.45	29.25	29.05	28.85	28.65	28.45	28.25	28.05	27.85	27.65	27.46	33.5
33.6	29.55	29.35	29.15	28.95	28.75	28.55	28.35	28.15	27.95	27.75	27.55	33.6
33.7	29.65	29.45	29.25	29.05	28.85	28.65	28.45	28.25	28.05	27.85	27.65	33.7
33.8	29.75	29.55	29.35	29.15	28.95	28.75	28.55	28.35	28.15	27.95	27.75	33.8
33.9	29.85	29.65	29.45	29.24	29.04	28.84	28.64	28.44	28.24	28.04	27.84	33.9
34	29.95	29.75	29.54	29.34	29.14	28.94	28.74	28.54	28.34	28.14	27.94	34
34.1	30.05	29.84	29.64	29.44	29.24	29.04	28.84	28.64	28.44	28.24	28.04	34.1
34.2	30.14	29.94	29.74	29.54	29.34	29.14	28.94	28.74	28.54	28.34	28.14	34.2
34.3	30.24	30.04	29.84	29.64	29.44	29.24	29.04	28.84	28.64	28.43	28.23	34.3
34.4	30.34	30.14	29.94	29.74	29.54	29.34	29.13	28.93	28.73	28.53	28.33	34.4
34.5	30.44	30.24	30.04	29.84	29.64	29.43	29.23	29.03	28.83	28.63	28.43	34.5
34.6	30.54	30.34	30.14	29.94	29.73	29.53	29.33	29.13	28.93	28.73	28.53	34.6
34.7	30.64	30.44	30.24	30.03	29.83	29.63	29.43	29.23	29.03	28.83	28.63	34.7
34.8	30.74	30.54	30.34	30.13	29.93	29.73	29.53	29.33	29.13	28.93	28.73	34.8
34.9	30.84	30.64	30.43	30.23	30.03	29.83	29.63	29.43	29.23	29.02	28.82	34.9
35	30.94	30.74	30.53	30.33	30.13	29.93	29.73	29.53	29.32	29.12	28.92	35

表 B.1 (续)

酒精度 %vol	酒精计温度 ℃											酒精度 %vol
	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5	35	
35	30.94	30.74	30.53	30.33	30.13	29.93	29.73	29.53	29.32	29.12	28.92	35
35.1	31.04	30.84	30.63	30.43	30.23	30.03	29.83	29.62	29.42	29.22	29.02	35.1
35.2	31.14	30.93	30.73	30.53	30.33	30.13	29.93	29.72	29.52	29.32	29.12	35.2
35.3	31.24	31.03	30.83	30.63	30.43	30.23	30.02	29.82	29.62	29.42	29.22	35.3
35.4	31.34	31.13	30.93	30.73	30.53	30.33	30.12	29.92	29.72	29.52	29.32	35.4
35.5	31.44	31.23	31.03	30.83	30.63	30.42	30.22	30.02	29.82	29.62	29.42	35.5
35.6	31.54	31.33	31.13	30.93	30.73	30.52	30.32	30.12	29.92	29.72	29.51	35.6
35.7	31.64	31.43	31.23	31.03	30.83	30.62	30.42	30.22	30.02	29.82	29.61	35.7
35.8	31.74	31.53	31.33	31.13	30.93	30.72	30.52	30.32	30.12	29.91	29.71	35.8
35.9	31.84	31.63	31.43	31.23	31.03	30.82	30.62	30.42	30.22	30.01	29.81	35.9
36	31.94	31.73	31.53	31.33	31.13	30.92	30.72	30.52	30.32	30.11	29.91	36
36.1	32.04	31.83	31.63	31.43	31.23	31.02	30.82	30.62	30.42	30.21	30.01	36.1
36.2	32.14	31.93	31.73	31.53	31.33	31.12	30.92	30.72	30.52	30.31	30.11	36.2
36.3	32.24	32.03	31.83	31.63	31.43	31.22	31.02	30.82	30.62	30.41	30.21	36.3
36.4	32.34	32.13	31.93	31.73	31.53	31.32	31.12	30.92	30.71	30.51	30.31	36.4
36.5	32.44	32.23	32.03	31.83	31.63	31.42	31.22	31.02	30.81	30.61	30.41	36.5
36.6	32.54	32.33	32.13	31.93	31.73	31.52	31.32	31.12	30.91	30.71	30.51	36.6
36.7	32.64	32.43	32.23	32.03	31.83	31.62	31.42	31.22	31.01	30.81	30.61	36.7
36.8	32.74	32.54	32.33	32.13	31.93	31.72	31.52	31.32	31.12	30.91	30.71	36.8
36.9	32.84	32.64	32.43	32.23	32.03	31.82	31.62	31.42	31.22	31.01	30.81	36.9
37	32.94	32.74	32.53	32.33	32.13	31.92	31.72	31.52	31.32	31.11	30.91	37
37.1	33.04	32.84	32.63	32.43	32.23	32.02	31.82	31.62	31.42	31.21	31.01	37.1
37.2	33.14	32.94	32.73	32.53	32.33	32.13	31.92	31.72	31.52	31.31	31.11	37.2
37.3	33.24	33.04	32.83	32.63	32.43	32.23	32.02	31.82	31.62	31.41	31.21	37.3
37.4	33.34	33.14	32.94	32.73	32.53	32.33	32.12	31.92	31.72	31.51	31.31	37.4
37.5	33.44	33.24	33.04	32.83	32.63	32.43	32.22	32.02	31.82	31.62	31.41	37.5
37.6	33.54	33.34	33.14	32.93	32.73	32.53	32.32	32.12	31.92	31.72	31.51	37.6
37.7	33.64	33.44	33.24	33.04	32.83	32.63	32.43	32.22	32.02	31.82	31.61	37.7
37.8	33.75	33.54	33.34	33.14	32.93	32.73	32.53	32.32	32.12	31.92	31.71	37.8
37.9	33.85	33.64	33.44	33.24	33.03	32.83	32.63	32.42	32.22	32.02	31.81	37.9
38	33.95	33.74	33.54	33.34	33.13	32.93	32.73	32.53	32.32	32.12	31.92	38
38.1	34.05	33.85	33.64	33.44	33.24	33.03	32.83	32.63	32.42	32.22	32.02	38.1
38.2	34.15	33.95	33.74	33.54	33.34	33.13	32.93	32.73	32.52	32.32	32.12	38.2
38.3	34.25	34.05	33.84	33.64	33.44	33.24	33.03	32.83	32.63	32.42	32.22	38.3
38.4	34.35	34.15	33.95	33.74	33.54	33.34	33.13	32.93	32.73	32.52	32.32	38.4
38.5	34.45	34.25	34.05	33.84	33.64	33.44	33.23	33.03	32.83	32.62	32.42	38.5
38.6	34.55	34.35	34.15	33.95	33.74	33.54	33.34	33.13	32.93	32.73	32.52	38.6
38.7	34.66	34.45	34.25	34.05	33.84	33.64	33.44	33.23	33.03	32.83	32.62	38.7
38.8	34.76	34.55	34.35	34.15	33.94	33.74	33.54	33.34	33.13	32.93	32.73	38.8
38.9	34.86	34.66	34.45	34.25	34.05	33.84	33.64	33.44	33.23	33.03	32.83	38.9
39	34.96	34.76	34.55	34.35	34.15	33.94	33.74	33.54	33.34	33.13	32.93	39
39.1	35.06	34.86	34.66	34.45	34.25	34.05	33.84	33.64	33.44	33.23	33.03	39.1
39.2	35.16	34.96	34.76	34.55	34.35	34.15	33.94	33.74	33.54	33.34	33.13	39.2
39.3	35.26	35.06	34.86	34.66	34.45	34.25	34.05	33.84	33.64	33.44	33.23	39.3
39.4	35.37	35.16	34.96	34.76	34.55	34.35	34.15	33.95	33.74	33.54	33.34	39.4
39.5	35.47	35.26	35.06	34.86	34.66	34.45	34.25	34.05	33.84	33.64	33.44	39.5
39.6	35.57	35.37	35.16	34.96	34.76	34.55	34.35	34.15	33.95	33.74	33.54	39.6
39.7	35.67	35.47	35.26	35.06	34.86	34.66	34.45	34.25	34.05	33.84	33.64	39.7
39.8	35.77	35.57	35.37	35.16	34.96	34.76	34.56	34.35	34.15	33.95	33.74	39.8
39.9	35.87	35.67	35.47	35.27	35.06	34.86	34.66	34.45	34.25	34.05	33.85	39.9
40	35.97	35.77	35.57	35.37	35.17	34.96	34.76	34.56	34.35	34.15	33.95	40

表 B.1 (续)

酒精度 %vol	酒精计温度 ℃											酒精度 %vol
	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5	35	
40	35.97	35.77	35.57	35.37	35.17	34.96	34.76	34.56	34.35	34.15	33.95	40
40.1	36.08	35.87	35.67	35.47	35.27	35.06	34.86	34.66	34.46	34.25	34.05	40.1
40.2	36.18	35.98	35.77	35.57	35.37	35.17	34.96	34.76	34.56	34.35	34.15	40.2
40.3	36.28	36.08	35.88	35.67	35.47	35.27	35.07	34.86	34.66	34.46	34.25	40.3
40.4	36.38	36.18	35.98	35.78	35.57	35.37	35.17	34.97	34.76	34.56	34.36	40.4
40.5	36.48	36.28	36.08	35.88	35.68	35.47	35.27	35.07	34.86	34.66	34.46	40.5
40.6	36.59	36.38	36.18	35.98	35.78	35.57	35.37	35.17	34.97	34.76	34.56	40.6
40.7	36.69	36.49	36.28	36.08	35.88	35.68	35.47	35.27	35.07	34.87	34.66	40.7
40.8	36.79	36.59	36.39	36.18	35.98	35.78	35.58	35.37	35.17	34.97	34.77	40.8
40.9	36.89	36.69	36.49	36.29	36.08	35.88	35.68	35.48	35.27	35.07	34.87	40.9
41	36.99	36.79	36.59	36.39	36.19	35.98	35.78	35.58	35.38	35.17	34.97	41
41.1	37.10	36.89	36.69	36.49	36.29	36.09	35.88	35.68	35.48	35.28	35.07	41.1
41.2	37.20	37.00	36.79	36.59	36.39	36.19	35.99	35.78	35.58	35.38	35.18	41.2
41.3	37.30	37.10	36.90	36.69	36.49	36.29	36.09	35.89	35.68	35.48	35.28	41.3
41.4	37.40	37.20	37.00	36.80	36.60	36.39	36.19	35.99	35.79	35.58	35.38	41.4
41.5	37.50	37.30	37.10	36.90	36.70	36.50	36.29	36.09	35.89	35.69	35.48	41.5
41.6	37.61	37.40	37.20	37.00	36.80	36.60	36.40	36.19	35.99	35.79	35.59	41.6
41.7	37.71	37.51	37.31	37.10	36.90	36.70	36.50	36.30	36.09	35.89	35.69	41.7
41.8	37.81	37.61	37.41	37.21	37.01	36.80	36.60	36.40	36.20	36.00	35.79	41.8
41.9	37.91	37.71	37.51	37.31	37.11	36.91	36.70	36.50	36.30	36.10	35.90	41.9
42	38.01	37.81	37.61	37.41	37.21	37.01	36.81	36.61	36.40	36.20	36.00	42
42.1	38.12	37.92	37.72	37.51	37.31	37.11	36.91	36.71	36.51	36.30	36.10	42.1
42.2	38.22	38.02	37.82	37.62	37.42	37.21	37.01	36.81	36.61	36.41	36.20	42.2
42.3	38.32	38.12	37.92	37.72	37.52	37.32	37.12	36.91	36.71	36.51	36.31	42.3
42.4	38.42	38.22	38.02	37.82	37.62	37.42	37.22	37.02	36.81	36.61	36.41	42.4
42.5	38.53	38.33	38.12	37.92	37.72	37.52	37.32	37.12	36.92	36.72	36.51	42.5
42.6	38.63	38.43	38.23	38.03	37.83	37.62	37.42	37.22	37.02	36.82	36.62	42.6
42.7	38.73	38.53	38.33	38.13	37.93	37.73	37.53	37.33	37.12	36.92	36.72	42.7
42.8	38.83	38.63	38.43	38.23	38.03	37.83	37.63	37.43	37.23	37.03	36.82	42.8
42.9	38.94	38.74	38.53	38.33	38.13	37.93	37.73	37.53	37.33	37.13	36.93	42.9
43	39.04	38.84	38.64	38.44	38.24	38.04	37.84	37.63	37.43	37.23	37.03	43
43.1	39.14	38.94	38.74	38.54	38.34	38.14	37.94	37.74	37.54	37.33	37.13	43.1
43.2	39.24	39.04	38.84	38.64	38.44	38.24	38.04	37.84	37.64	37.44	37.24	43.2
43.3	39.34	39.15	38.95	38.75	38.55	38.34	38.14	37.94	37.74	37.54	37.34	43.3
43.4	39.45	39.25	39.05	38.85	38.65	38.45	38.25	38.05	37.85	37.64	37.44	43.4
43.5	39.55	39.35	39.15	38.95	38.75	38.55	38.35	38.15	37.95	37.75	37.55	43.5
43.6	39.65	39.45	39.25	39.05	38.85	38.65	38.45	38.25	38.05	37.85	37.65	43.6
43.7	39.75	39.56	39.36	39.16	38.96	38.76	38.56	38.36	38.16	37.95	37.75	43.7
43.8	39.86	39.66	39.46	39.26	39.06	38.86	38.66	38.46	38.26	38.06	37.86	43.8
43.9	39.96	39.76	39.56	39.36	39.16	38.96	38.76	38.56	38.36	38.16	37.96	43.9
44	40.06	39.86	39.66	39.46	39.27	39.07	38.87	38.67	38.47	38.26	38.06	44
44.1	40.16	39.97	39.77	39.57	39.37	39.17	38.97	38.77	38.57	38.37	38.17	44.1
44.2	40.27	40.07	39.87	39.67	39.47	39.27	39.07	38.87	38.67	38.47	38.27	44.2
44.3	40.37	40.17	39.97	39.77	39.57	39.37	39.18	38.98	38.78	38.58	38.37	44.3
44.4	40.47	40.27	40.07	39.88	39.68	39.48	39.28	39.08	38.88	38.68	38.48	44.4
44.5	40.57	40.38	40.18	39.98	39.78	39.58	39.38	39.18	38.98	38.78	38.58	44.5
44.6	40.68	40.48	40.28	40.08	39.88	39.68	39.48	39.29	39.09	38.89	38.69	44.6
44.7	40.78	40.58	40.38	40.18	39.99	39.79	39.59	39.39	39.19	38.99	38.79	44.7
44.8	40.88	40.68	40.49	40.29	40.09	39.89	39.69	39.49	39.29	39.09	38.89	44.8
44.9	40.98	40.79	40.59	40.39	40.19	39.99	39.79	39.60	39.40	39.20	39.00	44.9
45	41.09	40.89	40.69	40.49	40.29	40.10	39.90	39.70	39.50	39.30	39.10	45

表 B.1 (续)

酒精度 %vol	酒精计温度 ℃											酒精度 %vol
	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5	35	
45	41.09	40.89	40.69	40.49	40.29	40.10	39.90	39.70	39.50	39.30	39.10	45
45.1	41.19	40.99	40.79	40.60	40.40	40.20	40.00	39.80	39.60	39.40	39.20	45.1
45.2	41.29	41.09	40.90	40.70	40.50	40.30	40.10	39.91	39.71	39.51	39.31	45.2
45.3	41.39	41.20	41.00	40.80	40.60	40.41	40.21	40.01	39.81	39.61	39.41	45.3
45.4	41.50	41.30	41.10	40.90	40.71	40.51	40.31	40.11	39.91	39.71	39.51	45.4
45.5	41.60	41.40	41.21	41.01	40.81	40.61	40.41	40.22	40.02	39.82	39.62	45.5
45.6	41.70	41.51	41.31	41.11	40.91	40.72	40.52	40.32	40.12	39.92	39.72	45.6
45.7	41.81	41.61	41.41	41.21	41.02	40.82	40.62	40.42	40.22	40.03	39.83	45.7
45.8	41.91	41.71	41.51	41.32	41.12	40.92	40.72	40.53	40.33	40.13	39.93	45.8
45.9	42.01	41.81	41.62	41.42	41.22	41.02	40.83	40.63	40.43	40.23	40.03	45.9
46	42.11	41.92	41.72	41.52	41.33	41.13	40.93	40.73	40.53	40.34	40.14	46
46.1	42.22	42.02	41.82	41.63	41.43	41.23	41.03	40.84	40.64	40.44	40.24	46.1
46.2	42.32	42.12	41.93	41.73	41.53	41.33	41.14	40.94	40.74	40.54	40.35	46.2
46.3	42.42	42.22	42.03	41.83	41.63	41.44	41.24	41.04	40.85	40.65	40.45	46.3
46.4	42.52	42.33	42.13	41.93	41.74	41.54	41.34	41.15	40.95	40.75	40.55	46.4
46.5	42.63	42.43	42.23	42.04	41.84	41.64	41.45	41.25	41.05	40.85	40.66	46.5
46.6	42.73	42.53	42.34	42.14	41.94	41.75	41.55	41.35	41.16	40.96	40.76	46.6
46.7	42.83	42.64	42.44	42.24	42.05	41.85	41.65	41.46	41.26	41.06	40.86	46.7
46.8	42.93	42.74	42.54	42.35	42.15	41.95	41.76	41.56	41.36	41.17	40.97	46.8
46.9	43.04	42.84	42.65	42.45	42.25	42.06	41.86	41.66	41.47	41.27	41.07	46.9
47	43.14	42.94	42.75	42.55	42.36	42.16	41.96	41.77	41.57	41.37	41.18	47
47.1	43.24	43.05	42.85	42.66	42.46	42.26	42.07	41.87	41.67	41.48	41.28	47.1
47.2	43.34	43.15	42.95	42.76	42.56	42.37	42.17	41.97	41.78	41.58	41.38	47.2
47.3	43.45	43.25	43.06	42.86	42.67	42.47	42.27	42.08	41.88	41.68	41.49	47.3
47.4	43.55	43.35	43.16	42.96	42.77	42.57	42.38	42.18	41.98	41.79	41.59	47.4
47.5	43.65	43.46	43.26	43.07	42.87	42.68	42.48	42.28	42.09	41.89	41.70	47.5
47.6	43.75	43.56	43.37	43.17	42.98	42.78	42.58	42.39	42.19	42.00	41.80	47.6
47.7	43.86	43.66	43.47	43.27	43.08	42.88	42.69	42.49	42.30	42.10	41.90	47.7
47.8	43.96	43.77	43.57	43.38	43.18	42.99	42.79	42.60	42.40	42.20	42.01	47.8
47.9	44.06	43.87	43.67	43.48	43.28	43.09	42.89	42.70	42.50	42.31	42.11	47.9
48	44.17	43.97	43.78	43.58	43.39	43.19	43.00	42.80	42.61	42.41	42.21	48
48.1	44.27	44.07	43.88	43.69	43.49	43.30	43.10	42.91	42.71	42.51	42.32	48.1
48.2	44.37	44.18	43.98	43.79	43.59	43.40	43.20	43.01	42.81	42.62	42.42	48.2
48.3	44.47	44.28	44.09	43.89	43.70	43.50	43.31	43.11	42.92	42.72	42.53	48.3
48.4	44.58	44.38	44.19	43.99	43.80	43.61	43.41	43.22	43.02	42.83	42.63	48.4
48.5	44.68	44.49	44.29	44.10	43.90	43.71	43.51	43.32	43.12	42.93	42.73	48.5
48.6	44.78	44.59	44.39	44.20	44.01	43.81	43.62	43.42	43.23	43.03	42.84	48.6
48.7	44.88	44.69	44.50	44.30	44.11	43.92	43.72	43.53	43.33	43.14	42.94	48.7
48.8	44.99	44.79	44.60	44.41	44.21	44.02	43.82	43.63	43.44	43.24	43.05	48.8
48.9	45.09	44.90	44.70	44.51	44.32	44.12	43.93	43.73	43.54	43.34	43.15	48.9
49	45.19	45.00	44.81	44.61	44.42	44.23	44.03	43.84	43.64	43.45	43.25	49
49.1	45.29	45.10	44.91	44.72	44.52	44.33	44.13	43.94	43.75	43.55	43.36	49.1
49.2	45.40	45.20	45.01	44.82	44.63	44.43	44.24	44.04	43.85	43.66	43.46	49.2
49.3	45.50	45.31	45.11	44.92	44.73	44.53	44.34	44.15	43.95	43.76	43.56	49.3
49.4	45.60	45.41	45.22	45.02	44.83	44.64	44.44	44.25	44.06	43.86	43.67	49.4
49.5	45.70	45.51	45.32	45.13	44.93	44.74	44.55	44.35	44.16	43.97	43.77	49.5
49.6	45.81	45.61	45.42	45.23	45.04	44.84	44.65	44.46	44.26	44.07	43.88	49.6
49.7	45.91	45.72	45.53	45.33	45.14	44.95	44.75	44.56	44.37	44.17	43.98	49.7
49.8	46.01	45.82	45.63	45.44	45.24	45.05	44.86	44.66	44.47	44.28	44.08	49.8
49.9	46.11	45.92	45.73	45.54	45.35	45.15	44.96	44.77	44.57	44.38	44.19	49.9
50	46.22	46.03	45.83	45.64	45.45	45.26	45.06	44.87	44.68	44.49	44.29	50

表 B.1 (续)

酒精度 %vol	酒精计温度 ℃											酒精度 %vol
	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5	35	
50	46.22	46.03	45.83	45.64	45.45	45.26	45.06	44.87	44.68	44.49	44.29	50
50.1	46.32	46.13	45.94	45.74	45.55	45.36	45.17	44.98	44.78	44.59	44.40	50.1
50.2	46.42	46.23	46.04	45.85	45.66	45.46	45.27	45.08	44.89	44.69	44.50	50.2
50.3	46.52	46.33	46.14	45.95	45.76	45.57	45.37	45.18	44.99	44.80	44.60	50.3
50.4	46.63	46.44	46.25	46.05	45.86	45.67	45.48	45.29	45.09	44.90	44.71	50.4
50.5	46.73	46.54	46.35	46.16	45.96	45.77	45.58	45.39	45.20	45.00	44.81	50.5
50.6	46.83	46.64	46.45	46.26	46.07	45.88	45.68	45.49	45.30	45.11	44.91	50.6
50.7	46.94	46.74	46.55	46.36	46.17	45.98	45.79	45.60	45.40	45.21	45.02	50.7
50.8	47.04	46.85	46.66	46.47	46.27	46.08	45.89	45.70	45.51	45.31	45.12	50.8
50.9	47.14	46.95	46.76	46.57	46.38	46.19	45.99	45.80	45.61	45.42	45.23	50.9
51	47.24	47.05	46.86	46.67	46.48	46.29	46.10	45.91	45.71	45.52	45.33	51
51.1	47.35	47.15	46.96	46.77	46.58	46.39	46.20	46.01	45.82	45.63	45.43	51.1
51.2	47.45	47.26	47.07	46.88	46.69	46.49	46.30	46.11	45.92	45.73	45.54	51.2
51.3	47.55	47.36	47.17	46.98	46.79	46.60	46.41	46.22	46.02	45.83	45.64	51.3
51.4	47.65	47.46	47.27	47.08	46.89	46.70	46.51	46.32	46.13	45.94	45.74	51.4
51.5	47.76	47.57	47.38	47.19	46.99	46.80	46.61	46.42	46.23	46.04	45.85	51.5
51.6	47.86	47.67	47.48	47.29	47.10	46.91	46.72	46.53	46.33	46.14	45.95	51.6
51.7	47.96	47.77	47.58	47.39	47.20	47.01	46.82	46.63	46.44	46.25	46.06	51.7
51.8	48.06	47.87	47.68	47.49	47.30	47.11	46.92	46.73	46.54	46.35	46.16	51.8
51.9	48.16	47.98	47.79	47.60	47.41	47.22	47.03	46.84	46.64	46.45	46.26	51.9
52	48.27	48.00	47.89	47.70	47.51	47.32	47.13	46.94	46.75	46.56	46.37	52
52.1	48.37	48.18	47.99	47.80	47.61	47.42	47.23	47.04	46.85	46.66	46.47	52.1
52.2	48.47	48.28	48.09	47.90	47.72	47.53	47.34	47.15	46.96	46.76	46.57	52.2
52.3	48.57	48.39	48.20	48.01	47.82	47.63	47.44	47.25	47.06	46.87	46.68	52.3
52.4	48.68	48.49	48.30	48.11	47.92	47.73	47.54	47.35	47.16	46.97	46.78	52.4
52.5	48.78	48.59	48.40	48.21	48.02	47.84	47.65	47.46	47.26	47.08	46.88	52.5
52.6	48.88	48.69	48.50	48.32	48.13	47.94	47.75	47.56	47.37	47.18	46.99	52.6
52.7	48.98	48.80	48.61	48.42	48.23	48.04	47.85	47.66	47.47	47.28	47.09	52.7
52.8	49.09	48.90	48.71	48.52	48.33	48.14	47.95	47.77	47.57	47.39	47.20	52.8
52.9	49.19	49.00	48.81	48.62	48.44	48.25	48.06	47.87	47.68	47.49	47.30	52.9
53	49.29	49.10	48.92	48.73	48.54	48.35	48.16	47.97	47.78	47.59	47.40	53
53.1	49.39	49.21	49.02	48.83	48.64	48.45	48.26	48.07	47.89	47.70	47.51	53.1
53.2	49.50	49.31	49.12	48.93	48.74	48.56	48.37	48.18	47.99	47.80	47.61	53.2
53.3	49.60	49.41	49.22	49.04	48.85	48.66	48.47	48.28	48.09	47.90	47.71	53.3
53.4	49.70	49.51	49.33	49.14	48.95	48.76	48.57	48.38	48.20	48.01	47.82	53.4
53.5	49.80	49.62	49.43	49.24	49.05	48.86	48.68	48.49	48.30	48.11	47.92	53.5
53.6	49.91	49.72	49.53	49.34	49.16	48.97	48.78	48.59	48.40	48.21	48.02	53.6
53.7	50.01	49.82	49.63	49.45	49.26	49.07	48.88	48.69	48.51	48.32	48.13	53.7
53.8	50.11	49.92	49.74	49.55	49.36	49.17	48.99	48.80	48.61	48.42	48.23	53.8
53.9	50.21	50.03	49.84	49.65	49.46	49.28	49.09	48.90	48.71	48.52	48.33	53.9
54	50.32	50.13	49.94	49.75	49.57	49.38	49.19	49.00	48.82	48.63	48.44	54
54.1	50.42	50.23	50.04	49.86	49.67	49.48	49.29	49.11	48.92	48.73	48.54	54.1
54.2	50.52	50.33	50.15	49.96	49.77	49.58	49.40	49.21	49.02	48.83	48.64	54.2
54.3	50.62	50.44	50.25	50.06	49.88	49.69	49.50	49.31	49.12	48.94	48.75	54.3
54.4	50.72	50.54	50.35	50.16	49.98	49.79	49.60	49.42	49.23	49.04	48.85	54.4
54.5	50.83	50.64	50.45	50.27	50.08	49.89	49.71	49.52	49.33	49.14	48.96	54.5
54.6	50.93	50.74	50.56	50.37	50.18	50.00	49.81	49.62	49.43	49.25	49.06	54.6
54.7	51.03	50.85	50.66	50.47	50.29	50.10	49.91	49.72	49.54	49.35	49.16	54.7
54.8	51.13	50.95	50.76	50.58	50.39	50.20	50.02	49.83	49.64	49.45	49.27	54.8
54.9	51.24	51.05	50.86	50.68	50.49	50.30	50.12	49.93	48.74	49.56	49.37	54.9
55	51.34	51.15	50.97	50.78	50.59	50.41	50.22	50.03	49.85	49.66	49.47	55



表 B.1 (续)

酒精度 %vol	酒精计温度 ℃											酒精度 %vol
	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5	35	
55	51.34	51.15	50.97	50.78	50.59	50.41	50.22	50.03	49.85	49.66	49.47	55
55.1	51.44	51.25	51.07	50.88	50.70	50.51	50.32	50.14	49.95	49.76	49.58	55.1
55.2	51.54	51.36	51.17	50.99	50.80	50.61	50.43	50.24	50.05	49.87	49.68	55.2
55.3	51.64	51.46	51.27	51.09	50.90	50.72	50.53	50.34	50.16	49.97	49.78	55.3
55.4	51.75	51.56	51.38	51.19	51.01	50.82	50.63	50.45	50.26	50.07	49.89	55.4
55.5	51.85	51.66	51.48	51.29	51.11	50.92	50.74	50.55	50.36	50.18	49.99	55.5
55.6	51.95	51.77	51.58	51.40	51.21	51.02	50.84	50.65	50.47	50.28	50.09	55.6
55.7	52.05	51.87	51.68	51.50	51.31	51.13	50.94	50.76	50.57	50.38	50.20	55.7
55.8	52.16	51.97	51.79	51.60	51.42	51.23	51.04	50.86	50.67	50.49	50.30	55.8
55.9	52.26	52.07	51.89	51.70	51.52	51.33	51.15	50.96	50.78	50.59	50.40	55.9
56	52.36	52.18	51.99	51.81	51.62	51.44	51.25	51.06	50.88	50.69	50.51	56
56.1	52.46	52.28	52.09	51.91	51.72	51.54	51.35	51.17	50.98	50.80	50.61	56.1
56.2	52.57	52.38	52.20	52.01	51.83	51.64	51.46	51.27	51.08	50.90	50.71	56.2
56.3	52.67	52.48	52.30	52.11	51.93	51.74	51.56	51.37	51.19	51.00	50.82	56.3
56.4	52.77	52.59	52.40	52.22	52.03	51.85	51.66	51.48	51.29	51.10	50.92	56.4
56.5	52.87	52.69	52.50	52.32	52.13	51.95	51.76	51.58	51.39	51.21	51.02	56.5
56.6	52.97	52.79	52.61	52.42	52.24	52.05	51.87	51.68	51.50	51.31	51.13	56.6
56.7	53.08	52.89	52.71	52.52	52.34	52.15	51.97	51.78	51.60	51.41	51.23	56.7
56.8	53.18	52.99	52.81	52.63	52.44	52.26	52.07	51.89	51.70	51.52	51.33	56.8
56.9	53.28	53.10	52.91	52.73	52.54	52.36	52.18	51.99	51.81	51.62	51.43	56.9
57	53.38	53.20	53.02	52.83	52.65	52.46	52.28	52.09	51.91	51.72	51.54	57
57.1	53.48	53.30	53.12	52.93	52.75	52.57	52.38	52.20	52.01	51.83	51.64	57.1
57.2	53.59	53.40	53.22	53.04	52.85	52.67	52.48	52.30	52.11	51.93	51.74	57.2
57.3	53.69	53.51	53.32	53.14	52.95	52.77	52.59	52.40	52.22	52.03	51.85	57.3
57.4	53.79	53.61	53.42	53.24	53.06	52.87	52.69	52.51	52.32	52.14	51.95	57.4
57.5	53.89	53.71	53.53	53.34	53.16	52.98	52.79	52.61	52.42	52.24	52.05	57.5
57.6	54.00	53.81	53.63	53.45	53.26	53.08	52.89	52.71	52.53	52.34	52.16	57.6
57.7	54.10	53.91	53.73	53.55	53.37	53.18	53.00	52.81	52.63	52.45	52.26	57.7
57.8	54.20	54.02	53.83	53.65	53.47	53.28	53.10	52.92	52.73	52.55	52.36	57.8
57.9	54.30	54.12	53.94	53.75	53.57	53.39	53.20	53.02	52.84	52.65	52.47	57.9
58	54.40	54.22	54.04	53.86	53.67	53.49	53.31	53.12	52.94	52.75	52.57	58
58.1	54.51	54.32	54.14	53.96	53.78	53.59	53.41	53.23	53.04	52.86	52.67	58.1
58.2	54.61	54.43	54.24	54.06	53.88	53.69	53.51	53.33	53.14	52.96	52.78	58.2
58.3	54.71	54.53	54.35	54.16	53.98	53.80	53.61	53.43	53.25	53.06	52.88	58.3
58.4	54.81	54.63	54.45	54.27	54.08	53.90	53.72	53.53	53.35	53.17	52.98	58.4
58.5	54.91	54.73	54.55	54.37	54.19	54.00	53.82	53.64	53.45	53.27	53.09	58.5
58.6	55.02	54.84	54.65	54.47	54.29	54.11	53.92	53.74	53.56	53.37	53.19	58.6
58.7	55.12	54.94	54.76	54.57	54.39	54.21	54.03	53.84	53.66	53.48	53.29	58.7
58.8	55.22	55.04	54.86	54.68	54.49	54.31	54.13	53.94	53.76	53.58	53.39	58.8
58.9	55.32	55.14	54.96	54.78	54.60	54.41	54.23	54.05	53.86	53.68	53.50	58.9
59	55.43	55.24	55.06	54.88	54.70	54.52	54.33	54.15	53.97	53.78	53.60	59
59.1	55.53	55.35	55.16	54.98	54.80	54.62	54.44	54.25	54.07	53.89	53.70	59.1
59.2	55.63	55.45	55.27	55.09	54.90	54.72	54.54	54.36	54.17	53.99	53.81	59.2
59.3	55.73	55.55	55.37	55.19	55.01	54.82	54.64	54.46	54.28	54.09	53.91	59.3
59.4	55.83	55.65	55.47	55.29	55.11	54.93	54.74	54.56	54.38	54.20	54.01	59.4
59.5	55.94	55.76	55.57	55.39	55.21	55.03	54.85	54.66	54.48	54.30	54.12	59.5
59.6	56.04	55.86	55.68	55.49	55.31	55.13	54.95	54.77	54.58	54.40	54.22	59.6
59.7	56.14	55.96	55.78	55.60	55.42	55.23	55.05	54.87	54.69	54.51	54.32	59.7
59.8	56.24	56.06	55.88	55.70	55.52	55.34	55.15	54.97	54.79	54.61	54.43	59.8
59.9	56.34	56.16	55.98	55.80	55.62	55.44	55.26	55.08	54.89	54.71	54.53	59.9
60	56.45	56.27	56.09	55.90	55.72	55.54	55.36	55.18	55.00	54.81	54.63	60

表 B.1 (续)

酒精度 %vol	酒精计温度 ℃											酒精度 %vol
	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5	35	
60	56.45	56.27	56.09	55.90	55.72	55.54	55.36	55.18	55.00	54.81	54.63	60
60.1	56.55	56.37	56.19	56.01	55.83	55.64	55.46	55.28	55.10	54.92	54.73	60.1
60.2	56.65	56.47	56.29	56.11	55.93	55.75	55.57	55.38	55.20	55.02	54.84	60.2
60.3	56.75	56.57	56.39	56.21	56.03	55.85	55.67	55.49	55.30	55.12	54.94	60.3
60.4	56.85	56.67	56.49	56.31	56.13	55.95	55.77	55.59	55.41	55.23	55.04	60.4
60.5	56.96	56.78	56.60	56.42	56.24	56.05	55.87	55.69	55.51	55.33	55.15	60.5
60.6	57.06	56.88	56.70	56.52	56.34	56.16	55.98	55.79	55.61	55.43	55.25	60.6
60.7	57.16	56.98	56.80	56.62	56.44	56.26	56.08	55.90	55.72	55.53	55.35	60.7
60.8	57.26	57.08	56.90	56.72	56.54	56.36	56.18	56.00	55.82	55.64	55.46	60.8
60.9	57.37	57.19	57.01	56.83	56.65	56.46	56.28	56.10	55.92	55.74	55.56	60.9
61	57.47	57.29	57.11	56.93	56.75	56.57	56.39	56.21	56.02	55.84	55.66	61
61.1	57.57	57.39	57.21	57.03	56.85	56.67	56.49	56.31	56.13	55.95	55.77	61.1
61.2	57.67	57.49	57.31	57.13	56.95	56.77	56.59	56.41	56.23	56.05	55.87	61.2
61.3	57.77	57.59	57.42	57.24	57.06	56.88	56.69	56.51	56.33	56.15	55.97	61.3
61.4	57.88	57.70	57.52	57.34	57.16	56.98	56.80	56.62	56.44	56.26	56.07	61.4
61.5	57.98	57.80	57.62	57.44	57.26	57.08	56.90	56.72	56.54	56.36	56.18	61.5
61.6	58.08	57.90	57.72	57.54	57.36	57.18	57.00	56.82	56.64	56.46	56.28	61.6
61.7	58.18	58.00	57.82	57.64	57.47	57.29	57.11	56.93	56.74	56.56	56.38	61.7
61.8	58.28	58.11	57.93	57.75	57.57	57.39	57.21	57.03	56.85	56.67	56.49	61.8
61.9	58.39	58.21	58.03	57.85	57.67	57.49	57.31	57.13	56.95	56.77	56.59	61.9
62	58.49	58.31	58.13	57.95	57.77	57.59	57.41	57.23	57.05	56.87	56.69	62
62.1	58.59	58.41	58.23	58.05	57.88	57.70	57.52	57.34	57.16	56.98	56.80	62.1
62.2	58.69	58.51	58.34	58.16	57.98	57.80	57.62	57.44	57.26	57.08	56.90	62.2
62.3	58.79	58.62	58.44	58.26	58.08	57.90	57.72	57.54	57.36	57.18	57.00	62.3
62.4	58.90	58.72	58.54	58.36	58.18	58.00	57.82	57.64	57.46	57.28	57.10	62.4
62.5	59.00	58.82	58.64	58.46	58.29	58.11	57.93	57.75	57.57	57.39	57.21	62.5
62.6	59.10	58.92	58.75	58.57	58.39	58.21	58.03	57.85	57.67	57.49	57.31	62.6
62.7	59.20	59.03	58.85	58.67	58.49	58.31	58.13	57.95	57.77	57.59	57.41	62.7
62.8	59.31	59.13	58.95	58.77	58.59	58.41	58.23	58.06	57.88	57.70	57.52	62.8
62.9	59.41	59.23	59.05	58.87	58.70	58.52	58.34	58.16	57.98	57.80	57.62	62.9
63	59.51	59.33	59.15	58.98	58.80	58.62	58.44	58.26	58.08	57.90	57.72	63
63.1	59.61	59.43	59.26	59.08	58.90	58.72	58.54	58.36	58.18	58.01	57.83	63.1
63.2	59.71	59.54	59.36	59.18	59.00	58.82	58.65	58.47	58.29	58.11	57.93	63.2
63.3	59.82	59.64	59.46	59.28	59.11	58.93	58.75	58.57	58.39	58.21	58.03	63.3
63.4	59.92	59.74	59.56	59.39	59.21	59.03	58.85	58.67	58.49	58.42	58.13	63.4
63.5	60.02	59.84	59.67	59.49	59.31	59.13	58.95	58.78	58.60	58.31	58.24	63.5
63.6	60.12	59.95	59.77	59.59	59.41	59.23	59.06	58.88	58.70	58.52	58.34	63.6
63.7	60.22	60.05	59.87	59.69	59.52	59.34	59.16	58.98	58.80	58.62	58.44	63.7
63.8	60.33	60.15	59.97	59.80	59.62	59.44	59.26	59.08	58.90	58.73	58.55	63.8
63.9	60.43	60.25	60.08	59.90	59.72	59.54	59.36	59.19	59.01	58.83	58.65	63.9
64	60.53	60.35	60.18	60.00	59.82	59.65	59.47	59.29	59.11	58.93	58.75	64
64.1	60.63	60.46	60.28	60.10	59.93	59.75	59.57	59.39	59.21	59.04	58.86	64.1
64.2	60.74	60.56	60.38	60.21	60.03	59.85	59.67	59.49	59.32	59.14	58.96	64.2
64.3	60.84	60.66	60.48	60.31	60.13	59.95	59.78	59.60	59.42	59.24	59.06	64.3
64.4	60.94	60.76	60.59	60.41	60.23	60.06	59.88	59.70	59.52	59.34	59.17	64.4
64.5	61.04	60.87	60.69	60.51	60.34	60.16	59.98	59.80	59.63	59.45	59.27	64.5
64.6	61.14	60.97	60.79	60.62	60.44	60.26	60.08	59.91	59.73	59.55	59.37	64.6
64.7	61.25	61.07	60.89	60.72	60.54	60.36	60.19	60.01	59.83	59.65	59.47	64.7
64.8	61.35	61.17	61.00	60.82	60.64	60.47	60.29	60.11	59.93	59.76	59.58	64.8
64.9	61.45	61.28	61.10	60.92	60.75	60.57	60.39	60.21	60.04	59.86	59.68	64.9
65	61.55	61.38	61.20	61.03	60.85	60.67	60.49	60.32	60.14	59.96	59.78	65

表 B.1 (续)

酒精度 %vol	酒精计温度 ℃										酒精度 %vol	
	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5		35
65	61.55	61.38	61.20	61.03	60.85	60.67	60.49	60.32	60.14	59.96	59.78	65
65.1	61.66	61.48	61.30	61.13	60.95	60.77	60.60	60.42	60.24	60.07	59.89	65.1
65.2	61.76	61.58	61.41	61.23	61.05	60.88	60.70	60.52	60.35	60.17	59.99	65.2
65.3	61.86	61.68	61.51	61.33	61.16	60.98	60.80	60.63	60.45	60.27	60.09	65.3
65.4	61.96	61.79	61.61	61.44	61.26	61.08	60.91	60.73	60.55	60.37	60.20	65.4
65.5	62.06	61.89	61.71	61.54	61.36	61.19	61.01	60.83	60.65	60.48	60.30	65.5
65.6	62.17	61.99	61.82	61.64	61.46	61.29	61.11	60.93	60.76	60.58	60.40	65.6
65.7	62.27	62.09	61.92	61.74	61.57	61.39	61.21	61.04	60.86	60.68	60.51	65.7
65.8	62.37	62.20	62.02	61.85	61.67	61.49	61.32	61.14	60.96	60.79	60.61	65.8
65.9	62.47	62.30	62.12	61.95	61.77	61.60	61.42	61.24	61.07	60.89	60.71	65.9
66	62.58	62.40	62.23	62.05	61.87	61.70	61.52	61.35	61.17	60.99	60.82	66
66.1	62.68	62.50	62.33	62.15	61.98	61.80	61.63	61.45	61.27	61.10	60.92	66.1
66.2	62.78	62.61	62.43	62.26	62.08	61.90	61.73	61.55	61.38	61.20	61.02	66.2
66.3	62.88	62.71	62.53	62.36	62.18	62.01	61.83	61.66	61.48	61.30	61.13	66.3
66.4	62.98	62.81	62.64	62.46	62.29	62.11	61.93	61.76	61.58	61.41	61.23	66.4
66.5	63.09	62.91	62.74	62.56	62.39	62.21	62.04	61.86	61.69	61.51	61.33	66.5
66.6	63.19	63.01	62.84	62.67	62.49	62.32	62.14	61.96	61.79	61.61	61.44	66.6
66.7	63.29	63.12	62.94	62.77	62.59	62.42	62.24	62.07	61.89	61.72	61.54	66.7
66.8	63.39	63.22	63.05	62.87	62.70	62.52	62.35	62.17	61.99	61.82	61.64	66.8
66.9	63.50	63.32	63.15	62.97	62.80	62.62	62.45	62.27	62.10	61.92	61.75	66.9
67	63.60	63.42	63.25	63.08	62.90	62.73	62.55	62.38	62.20	62.02	61.85	67
67.1	63.70	63.53	63.35	63.18	63.00	62.83	62.65	62.48	62.30	62.13	61.95	67.1
67.2	63.80	63.63	63.46	63.28	63.11	62.93	62.76	62.58	62.41	62.23	62.05	67.2
67.3	63.90	63.73	63.56	63.38	63.21	63.04	62.86	62.69	62.51	62.33	62.16	67.3
67.4	64.01	63.83	63.66	63.49	63.31	63.14	62.96	62.79	62.61	62.44	62.26	67.4
67.5	64.11	63.94	63.76	63.59	63.42	63.24	63.07	62.89	62.72	62.54	62.36	67.5
67.6	64.21	64.04	63.87	63.69	63.52	63.34	63.17	62.99	62.82	62.64	62.47	67.6
67.7	64.31	64.14	63.97	63.79	63.62	63.45	63.27	63.10	62.92	62.75	62.57	67.7
67.8	64.42	64.24	64.07	63.90	63.72	63.55	63.38	63.20	63.03	62.85	62.67	67.8
67.9	64.52	64.35	64.17	64.00	63.83	63.65	63.48	63.30	63.13	62.95	62.78	67.9
68	64.62	64.45	64.28	64.10	63.93	63.76	63.58	63.41	63.23	63.06	62.88	68
68.1	64.72	64.55	64.38	64.21	64.03	63.86	63.68	63.51	63.34	63.16	62.98	68.1
68.2	64.83	64.65	64.48	64.31	64.13	63.96	63.79	63.61	63.44	63.26	63.09	68.2
68.3	64.93	64.76	64.58	64.41	64.24	64.06	63.89	63.72	63.54	63.37	63.19	68.3
68.4	65.03	64.86	64.69	64.51	64.34	64.17	63.99	63.82	63.64	63.47	63.30	68.4
68.5	65.13	64.96	64.79	64.62	64.44	64.27	64.10	63.92	63.75	63.57	63.40	68.5
68.6	65.24	65.06	64.89	64.72	64.55	64.37	64.20	64.03	63.85	63.68	63.50	68.6
68.7	65.34	65.17	64.99	64.82	64.65	64.48	64.30	64.13	63.95	63.78	63.61	68.7
68.8	65.44	65.27	65.10	64.92	64.75	64.58	64.41	64.23	64.06	63.88	63.71	68.8
68.9	65.54	65.37	65.20	65.03	64.85	64.68	64.51	64.33	64.16	63.99	63.81	68.9
69	65.64	65.47	65.30	65.13	64.96	64.78	64.61	64.44	64.26	64.09	63.92	69
69.1	65.75	65.58	65.40	65.23	65.06	64.89	64.71	64.54	64.37	64.19	64.02	69.1
69.2	65.85	65.68	65.51	65.33	65.16	64.99	64.82	64.64	64.47	64.30	64.12	69.2
69.3	65.95	65.78	65.61	65.44	65.27	65.09	64.92	64.75	64.57	64.40	64.23	69.3
69.4	66.05	65.88	65.71	65.54	65.37	65.20	65.02	64.85	64.68	64.50	64.33	69.4
69.5	66.16	65.99	65.81	65.64	65.47	65.30	65.13	64.95	64.78	64.61	64.43	69.5
69.6	66.26	66.09	65.92	65.75	65.57	65.40	65.23	65.06	64.88	64.71	64.54	69.6
69.7	66.36	66.19	66.02	65.85	65.68	65.51	65.33	65.16	64.99	64.81	64.64	69.7
69.8	66.46	66.29	66.12	65.95	65.78	65.61	65.44	65.26	65.09	64.92	64.74	69.8
69.9	66.57	66.40	66.23	66.05	65.88	65.71	65.54	65.37	65.19	65.02	64.85	69.9
70	66.67	66.50	66.33	66.16	65.99	65.81	65.64	65.47	65.30	65.12	64.95	70

表 B.1 (续)

酒精度 %vol	酒精计温度 ℃										酒精度 %vol
	5	6	7	8	9	10	11	12	13	14	
91	94.50	94.29	94.06	93.84	93.62	93.39	93.16	92.93	92.70	92.46	91
92	95.39	95.18	94.97	94.75	94.54	94.32	94.10	93.87	93.65	93.42	92
93	96.27	96.07	95.87	95.66	95.45	95.24	95.03	94.81	94.59	94.37	93
94	97.15	96.95	96.76	96.56	96.36	96.16	95.95	95.74	95.53	95.32	94
95	98.01	97.83	97.64	97.45	97.26	97.07	96.87	96.67	96.47	96.27	95
96	98.86	98.69	98.51	98.33	98.15	97.97	97.78	97.60	97.40	97.21	96
97	99.70	99.54	99.37	99.20	99.04	98.86	98.69	98.51	98.33	98.15	97
98	—	—	—	—	99.90	99.74	99.58	99.42	99.25	99.08	98
酒精度 %vol	酒精计温度 ℃										酒精度 %vol
	15	16	17	18	19	20	21	22	23	24	
91	92.22	91.98	91.74	91.50	91.25	91.00	90.75	90.50	90.22	89.98	91
92	93.19	92.95	92.72	92.48	92.24	92.00	91.76	91.51	91.26	91.01	92
93	94.15	93.92	93.70	93.47	93.23	93.00	92.76	92.52	92.28	92.04	93
94	95.11	94.89	94.67	94.45	94.23	94.00	93.77	93.54	93.31	93.07	94
95	96.06	95.85	95.64	95.43	95.22	95.00	94.78	94.56	94.33	94.11	95
96	97.01	96.82	96.62	96.41	96.21	96.00	95.79	95.58	95.36	95.15	96
97	97.96	97.78	97.58	97.39	97.20	97.00	96.80	96.60	96.39	96.19	97
98	98.90	98.73	98.55	98.37	98.19	98.00	97.81	97.62	97.43	97.23	98
酒精度 %vol	酒精计温度 ℃										酒精度 %vol
	25	26	27	28	29	30	31	32	33	34	
91	89.72	89.46	89.20	88.93	88.66	88.39	88.12	87.84	87.57	87.29	91
92	90.76	90.50	90.24	89.98	89.72	89.46	89.19	88.92	88.65	88.24	92
93	91.79	91.55	91.30	91.04	90.79	90.53	90.27	90.01	89.74	89.48	93
94	92.84	92.60	92.35	92.11	91.86	91.61	91.36	91.10	90.84	90.58	94
95	93.88	93.65	93.41	93.18	92.94	92.70	92.45	92.21	91.96	91.70	95
96	94.93	94.70	94.48	94.25	94.02	93.79	93.56	93.32	93.08	92.83	96
97	95.98	95.77	95.55	95.33	95.11	94.89	94.67	94.44	94.21	93.98	97
98	97.03	96.83	96.63	96.42	96.22	96.00	95.79	95.58	95.36	95.13	98