



中华人民共和国国家标准

GB/T 8704.1—1997

钒铁化学分析方法 红外线吸收法及气体容量法测定碳量

Methods for chemical analysis of ferrovanadium
The infrared absorption method and the
gasometric method for the determination
of carbon content

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前 言

本标准等效采用日本 JISG1318—1982《钒铁化学分析方法》中 4.2 气体容量法测定碳量,测定范围: $>0.05\%$ 和 4.5 红外线吸收法测定碳量,测定范围: $>0.001\%$ 。其称样量为 $0.5\text{ g}\sim 1\text{ g}$ 。本标准方法 1 红外线吸收法测定碳量,测定范围: $0.025\%\sim 1.200\%$,方法 2 气体容量法测定碳量,测定范围: $0.400\%\sim 1.200\%$,其称样量为 0.5 g 。

本标准的修订将原 GB 8704.1—88 和 GB 8704.2—88《钒铁化学分析方法》红外线吸收法和气体容量法合并为 GB/T 8704.1。

本标准 of GB/T 8704 第 1 部分,GB/T 8704《钒铁化学分析方法》包括 7 部分:

GB/T 8704.1 红外线吸收法和气体容量法测定碳量

GB/T 8704.3 红外线吸收法和燃烧中和滴定法测定硫量

GB/T 8704.5 电位滴定法测定钒量

GB/T 8704.6 硫酸脱水重量法测定硅量

GB/T 8704.7 钼蓝光度法测定磷量

GB/T 8704.8 铬天青 S 光度法和 EDTA 容量法测定铝量

GB/T 8704.9 高碘酸钾光度法和火焰原子吸收光谱法测定锰量

自本标准实施之日起代替 GB 8704.1—88《钒铁化学分析方法》红外线吸收法测定碳量、GB 8704.2—88《钒铁化学分析方法》气体容量法测定碳量。

本标准的附录 A 是标准的附录。

本标准由中华人民共和国冶金工业部提出。

本标准由冶金工业部信息标准研究院归口。

本标准由新余钢铁有限责任公司、冶金工业部信息标准研究院负责起草。

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本标准方法 II 主要起草人:吴太白、廖国华、张水菊、詹昭香。

本标准 1988 年 2 月 21 日首次发布。

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钒铁化学分析方法 红外线吸收法及气体容量法测定碳量

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代替 GB 8704.1~8704.2—88

1 范围

本标准适用于钒铁中碳量的测定。

本标准规定了以下两个方法测定钒铁中碳量。

方法Ⅰ：红外线吸收法，测定范围：0.025%~1.200%。

方法Ⅱ：气体容量法，测定范围：0.400%~1.200%。

2 方法Ⅰ 红外线吸收法测定碳量

2.1 方法提要

试样于高频感应炉的氧气流中加热燃烧，生成的二氧化碳由氧气载至红外线检测器的测量室，二氧化碳吸收某特定波长的红外能，其吸收能与碳的浓度成正比，根据检测器接受能量的变化可测定碳量。

2.2 试剂及材料

2.2.1 丙酮：蒸发后的残余物含碳量小于0.0005%。

2.2.2 高氯酸镁：无水、粒状。

2.2.3 烧碱石棉：粒状。

2.2.4 玻璃棉。

2.2.5 钨粒：碳量小于0.002%，粒度0.8mm~1.4mm。

2.2.6 锡粒：碳量小于0.002%，粒度0.4mm~0.8mm。必要时应用丙酮(2.2.1)清洗表面，并在室温下干燥。

2.2.7 纯铁：纯度大于99.8%，碳量小于0.002%，粒度0.8mm~1.68mm。

2.2.8 氧气：纯度大于99.95%，其他级别氧气若能获得低而一致的空白时，也可使用。

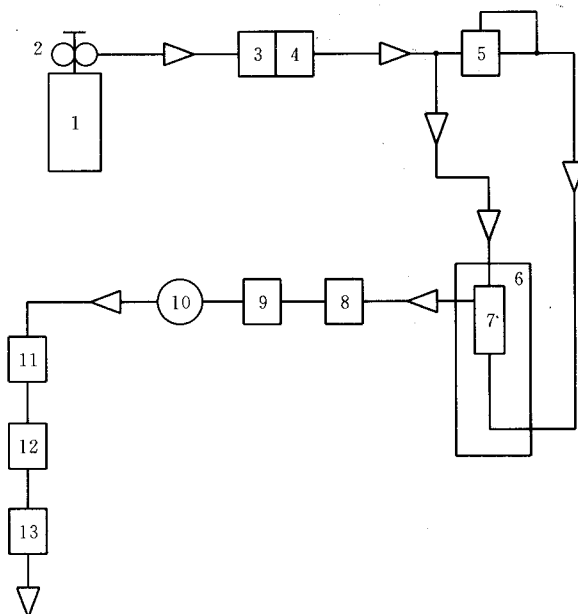
2.2.9 动力气源：氮气、氩气或压缩空气，其杂质(水和油)含量小于0.5%。

2.2.10 素质瓷坩埚直径×高度，23mm×23mm或25mm×25mm，并在高于1200℃的高温加热炉中灼烧4h或通氧灼烧至空白值为最低。

2.2.11 坩埚钳。

2.3 仪器及设备

2.3.1 红外线吸收定碳仪(灵敏度为 1×10^{-6})，其装置如图1。



1—氧气瓶;2—两级压力调节器;3—洗气瓶;4、9—干燥管;5—压力调节器;6—高频感应炉;7—燃烧管;8—除尘器;10—流量控制器;11—一氧化碳转换为二氧化碳的转换器;12—除硫器;13—二氧化碳红外检测器

图 1 红外线吸收定碳仪装置图

2.3.1.1 洗气瓶(3):内装烧碱石棉(2.2.3)。

2.3.1.2 干燥管(4、9):内装高氯酸镁(2.2.2)。

2.3.2 气源

2.3.2.1 载气系统包括氧气容器、两级压力调节器及保证提供合适压力和额定流量的时序控制部分。

2.3.2.2 动力气源系统包括动力气(2.2.9)、两级压力调节器及保证提供合适压力和额定流量的时序控制部分。

2.3.3 高频感应炉

应满足试样熔融温度的要求。

2.3.4 控制系统

2.3.4.1 微处理机系统包括中央处理机、存储器、键盘输入设备、信息中心显示屏、分析结果显示屏及分析结果打印机等。

2.3.4.2 控制功能包括自动装卸坩埚和炉台升降、自动清扫、分析条件选择设置、分析过程的监控和报警中断、分析数据的采集、计算、校正及处理等。

2.3.5 测量系统

主要由微处理机控制的电子天平(感量不大于 1.0 mg),红外线分析器及电子测量元件组成。

2.4 试样

试样应全部通过 0.177 mm 筛孔。

2.5 分析步骤

2.5.1 试样量

称取 0.500 g 试样三份。

2.5.2 空白试验

随同试样做空白试验,重复足够次数,记录最小的、比较稳定一致的三次读数,计算平均值并输入到仪器中,在测定试样时仪器会自动扣除空白值。

2.5.3 分析准备

调试检查仪器,使仪器处于正常稳定状态,并选用最佳分析条件。

2.5.4 校正试验

2.5.4.1 根据待测试样的含碳量,选择相应的量程或通道,并选择三个同类型标样(待测试样含碳量应落在所选三个标样含碳量的范围内)依次进行校正,测得结果的波动应在允许误差范围内,以确认系统的线性,否则应调节系统的线性。

2.5.4.2 不同量程或通道,应分别测其空白值并校正。当分析条件变化时,应重新测定空白并校正。

2.5.5 测定

2.5.5.1 按待测试样的含碳量范围,分别选择仪器的最佳分析条件。

2.5.5.2 将称取的试样(2.5.1)均匀置于三只预先盛有 0.300 g 锡粒(2.2.6)的坩埚(2.2.10)内,依次均匀覆盖 0.500 g 纯铁(2.2.7)和 1.500 g 钨粒(2.2.5),开始分析并读取结果。

三份试样的分析结果应在允许差范围内,否则应补充分析,取 3 份相接近的结果,求其算术平均值报出。

2.6 允许差

实验室之间分析结果的差值应不大于表 1 所列允许差。

表 1 允许差

%

碳 量	允许差
0.025	0.003
>0.025~0.070	0.006
>0.070~0.120	0.008
>0.120~0.400	0.012
>0.400~1.200	0.030

3 方法Ⅱ 气体容量法

3.1 方法提要:

试样置于管式燃烧炉中加热通氧燃烧,生成的二氧化碳等混合气体经除硫后收集于量气管中,然后以氢氧化钾溶液吸收其中的二氧化碳,吸收前后体积之差即为二氧化碳体积,再换算为碳量。

3.2 试剂及材料

3.2.1 助熔剂:锡粒(0.4 mm~0.8 mm)、铜、铁粉、五氧化二钒等。助熔剂中含碳量不大于 0.002%。

3.2.2 石棉纤维。

3.2.3 碱石灰或氢氧化钠。

3.2.4 氧化铝:活性、粒状。

3.2.5 二氧化锰:活性、粒状。

3.2.6 硫酸(ρ 1.84 g/mL)。

3.2.7 硫酸(0.1+100):滴加甲基红溶液呈红色。

3.2.8 铬酸饱和的硫酸溶液:于硫酸(3.2.6)中加重铬酸钾至饱和,使用其上部澄清溶液。

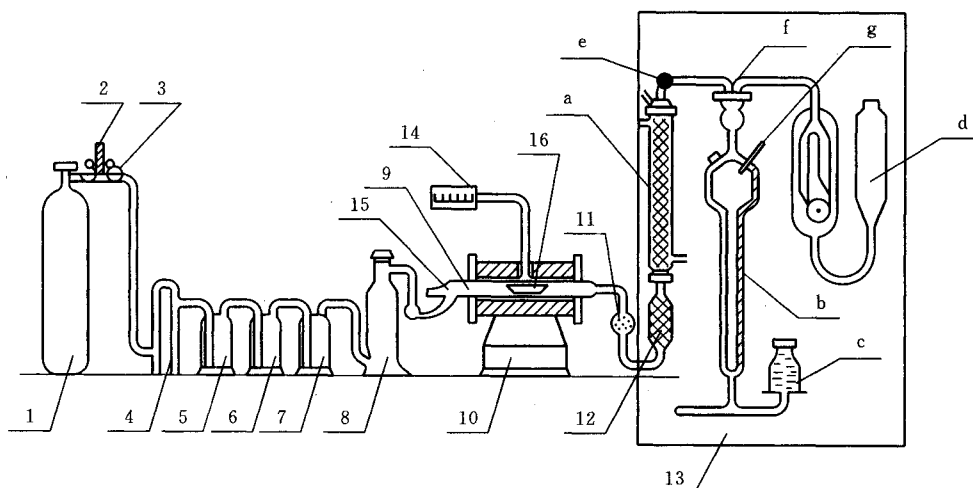
3.2.9 氢氧化钾溶液(400 g/L)。

3.2.10 氯化钠溶液(260 g/L):以甲基红溶液作指示剂,滴加硫酸(1+1)至酸性。

3.2.11 氧气:纯度大于 99.5%。

3.3 仪器及设备

3.3.1 气体容量法定碳装置见图 2。



1—氧气瓶;2—氧气表;3—缓冲瓶;4—微型转子流量计;5、6—洗气瓶;7、8—干燥塔;9—高温燃烧管;10—管式燃烧炉;11—石棉纤维;12—除硫管;13—容量定碳仪(包括:冷凝管a、量气管b、水准瓶c、吸收器d、小活塞e、三通活塞f、温度计g);
14—高温控制器;15—磨砂玻璃塞;16—瓷舟

图2 气体容量法定碳装置图

- 3.3.1.1 洗气瓶(5):内盛铬酸饱和的硫酸溶液(3.2.8)。
- 3.3.1.2 洗气瓶(6):内装碱石灰或氢氧化钠。
- 3.3.1.3 干燥塔(7、8):内装氧化铝(3.2.4)。
- 3.3.1.4 高温燃烧管(9):直径×长度,20 mm×600 mm或24 mm×600 mm。
- 3.3.1.5 管式燃烧炉(10):可调节电流以保证燃烧试样所需温度。
- 3.3.1.6 石棉纤维(11):灼烧至无碳。
- 3.3.1.7 除硫管(12):内装二氧化锰(3.2.5)。
- 3.3.1.8 瓷舟(16):长88 mm或97 mm,并在高于1 200℃高温加热炉中灼烧4 h或通氧灼烧至空白值为最低。
- 3.3.1.9 量气管(b):内盛氯化钠溶液(3.2.10)或硫酸溶液(3.2.7)。每一格刻度为0.05 mL,它是在16℃、101.32 kPa(760 mmHg)标准状况下刻制的。
- 3.3.1.10 吸收器(d):内盛氢氧化钾溶液(3.2.9)。
- 3.3.1.11 小活塞(e):有一方可通大气。
- 3.3.2 长钩:用低碳镍铬丝或耐热合金钢制成。
- 3.3.3 水银气压计:气压值应按式(1)校正。

$$P = P'(1 - 0.000163t - 0.0026\cos 2\varphi - 0.0000002H) \dots\dots\dots (1)$$

式中: P ——校正后的气压值, kPa;

P' ——水银气压计测得的气压值, kPa;

t ——水银气压计所在处温度,℃;

φ ——水银气压计所在处纬度,(°);

H ——水银气压计所在处海拔高度, m。

3.4 试样

试样应全部通过0.177 mm筛孔。

3.5 分析步骤

3.5.1 试样量

按表 2 称取试样和助熔剂。

表 2 试样及助熔剂称取量

碳量, %	试样量, g	助熔剂量(任选其一), g					
		锡粒	铜或氧化铜	五氧化二钒	氧化铜+五氧化二钒 (1+1)	铁粉+氧化铜 (1+1)	五氧化二钒+铁粉 (1+1)
0.400~1.200	1.000 0	0.5	0.5~1.0	0.5~1.0	0.5~1.0	0.5~1.0	0.5~1.0

3.5.2 空白试验

随同试样做空白试验。

3.5.3 分析前的准备

将炉温升至 1 200℃~1 350℃, 检查管路及活塞是否漏气, 装置是否正常, 燃烧标准试样, 检查仪器及操作。

3.5.4 测定

将试样(3.5.1)置于瓷舟(3.3.1.8)中, 按表 2 覆盖助熔剂, 将瓷舟推入高温燃烧管温度最高处, 立即塞紧磨砂玻璃塞(15), 将量气管上的三通活塞(f)打开, 调节氧气流速至 120 mL/min~140 mL/min, 通氧约 3 min, 使高温燃烧管中的温度恒定。

按容量定碳仪操作规程, 将混合气体导入量气管, 定容, 吸收后, 测量其读数, 并确认残留的气体体积没有变化后, 启开磨砂玻璃塞, 用长钩(3.3.2)将瓷舟拉出, 检查熔块, 确认燃烧完全后, 将残留气体放空。

3.6 计算

按公式(2)计算碳的百分含量:

$$C(\%) = \frac{(V - V_0) \times A \times f}{m} \times 100 \quad \dots\dots\dots (2)$$

式中: A——16℃, 气压 101.32 kPa, 用酸性水作封闭液时, 封闭液面上每毫升二氧化碳中含碳量 A 值为 0.000 500 0 g; 用氯化钠酸性溶液作封闭液时 A 值为 0.000 502 2 g;

V——吸收前与吸收后气体的体积差, 即二氧化碳体积, mL;

V₀——空白试验的气体体积, mL;

m——试样量, g;

f——温度、气压校正系数, 见附录 A(标准的附录)中表 A1 或表 A2。

3.7 允许差

实验室之间分析结果的差值应不大于表 3 所列允许差。

表 3 允许差

碳 量	允许差
0.400~1.200	0.030

附 录

(标准的

表 A1 气体容量法测定碳的温度、气压修正系数表

$t, ^\circ\text{C}$ $p, 10^2\text{Pa}$	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
750	0.7740	0.7710	0.7680	0.7640	0.7610	0.7570	0.7540	0.7500	0.7460	0.7430	0.7390	0.7350	0.7320	0.7280	0.7240	0.7200	0.7160	0.712
752	0.7770	0.7730	0.7700	0.7660	0.7630	0.7590	0.7560	0.7520	0.7480	0.7450	0.7410	0.7370	0.7340	0.7300	0.7260	0.7220	0.7180	0.714
754	0.7790	0.7750	0.7720	0.7680	0.7650	0.7610	0.7580	0.7540	0.7510	0.7470	0.7430	0.7400	0.7360	0.7320	0.7280	0.7240	0.7200	0.716
756	0.7810	0.7770	0.7740	0.7700	0.7670	0.7630	0.7600	0.7560	0.7530	0.7490	0.7450	0.7420	0.7380	0.7340	0.7300	0.7260	0.7220	0.718
758	0.7830	0.7790	0.7760	0.7720	0.7690	0.7650	0.7620	0.7580	0.7550	0.7510	0.7470	0.7440	0.7400	0.7360	0.7320	0.7280	0.7240	0.720
760	0.7850	0.7810	0.7780	0.7740	0.7710	0.7670	0.7640	0.7600	0.7570	0.7530	0.7490	0.7460	0.7420	0.7380	0.7340	0.7300	0.7260	0.722
762	0.7870	0.7840	0.7800	0.7770	0.7730	0.7690	0.7660	0.7620	0.7590	0.7550	0.7510	0.7480	0.7440	0.7400	0.7360	0.7320	0.7280	0.724
764	0.7890	0.7860	0.7820	0.7790	0.7750	0.7710	0.7680	0.7640	0.7610	0.7570	0.7530	0.7500	0.7460	0.7420	0.7380	0.7340	0.7300	0.726
766	0.7910	0.7880	0.7840	0.7810	0.7770	0.7740	0.7700	0.7660	0.7630	0.7590	0.7550	0.7520	0.7480	0.7440	0.7400	0.7360	0.7320	0.728
768	0.7930	0.7900	0.7860	0.7830	0.7790	0.7760	0.7720	0.7680	0.7650	0.7610	0.7570	0.7540	0.7500	0.7460	0.7420	0.7380	0.7340	0.730
770	0.7950	0.7920	0.7880	0.7850	0.7810	0.7780	0.7740	0.7700	0.7670	0.7630	0.7590	0.7560	0.7520	0.7480	0.7440	0.7400	0.7360	0.732
772	0.7970	0.7940	0.7900	0.7870	0.7830	0.7800	0.7760	0.7720	0.7690	0.7650	0.7610	0.7580	0.7540	0.7500	0.7460	0.7420	0.7380	0.734
774	0.8000	0.7960	0.7920	0.7890	0.7850	0.7820	0.7780	0.7740	0.7710	0.7670	0.7630	0.7600	0.7560	0.7520	0.7480	0.7440	0.7400	0.736
776	0.8020	0.7980	0.7950	0.7910	0.7870	0.7840	0.7800	0.7760	0.7730	0.7690	0.7650	0.7620	0.7580	0.7540	0.7500	0.7460	0.7420	0.738
778	0.8040	0.8000	0.7970	0.7930	0.7890	0.7860	0.7820	0.7780	0.7750	0.7710	0.7670	0.7640	0.7600	0.7560	0.7520	0.7480	0.7440	0.740
780	0.8060	0.8020	0.7990	0.7950	0.7920	0.7880	0.7840	0.7810	0.7770	0.7730	0.7690	0.7660	0.7620	0.7580	0.7540	0.7500	0.7460	0.742
782	0.8080	0.8040	0.8010	0.7970	0.7940	0.7900	0.7860	0.7830	0.7790	0.7750	0.7710	0.7680	0.7640	0.7600	0.7560	0.7520	0.7480	0.744
784	0.8100	0.8060	0.8030	0.7990	0.7960	0.7920	0.7880	0.7850	0.7810	0.7770	0.7730	0.7700	0.7660	0.7620	0.7580	0.7540	0.7500	0.746
786	0.8120	0.8090	0.8050	0.8010	0.7980	0.7940	0.7900	0.7870	0.7830	0.7790	0.7750	0.7720	0.7680	0.7640	0.7600	0.7560	0.7520	0.748
788	0.8140	0.8110	0.8070	0.8030	0.8000	0.7960	0.7920	0.7890	0.7850	0.7810	0.7770	0.7740	0.7700	0.7660	0.7620	0.7580	0.7540	0.750

A

附录)

(本表用 1 : 1 000 的硫酸溶液作封闭液)

23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
0.708	0.704	0.7000.6960.6920.6870.6830.6780.6740.6690.6640.6590.6540.6490.6440.6390.6330.6280.6220.616																	
0.710	0.706	0.7020.6980.6940.6890.6850.6800.6760.6710.6660.6610.6560.6510.6460.6400.6350.6290.6240.618																	
0.712	0.708	0.7040.7000.6950.6910.6870.6820.6770.6730.6680.6630.6580.6530.6480.6420.6370.6310.6260.620																	
0.714	0.710	0.7060.7020.6970.6930.6890.6840.6790.6750.6700.6650.6600.6550.6500.6440.6390.6330.6270.622																	
0.716	0.712	0.7080.7040.6990.6950.6910.6860.6810.6770.6720.6670.6620.6570.6510.6460.6410.6350.6290.623																	
0.718	0.714	0.7100.7060.7010.6970.6930.6880.6830.6780.6740.6690.6640.6590.6530.6480.6420.6370.6310.625																	
0.720	0.716	0.7120.7080.7030.6990.6940.6900.6850.6800.6760.6710.6660.6600.6550.6500.6440.6390.6330.627																	
0.722	0.718	0.7140.7100.7050.7010.6960.6920.6870.6820.6770.6720.6670.6620.6570.6520.6460.6410.6350.629																	
0.724	0.720	0.7160.7110.7070.7030.6980.6940.6890.6840.6790.6740.6690.6640.6590.6540.6480.6420.6370.631																	
0.726	0.722	0.7180.7130.7090.7050.7000.6960.6910.6860.6810.6760.6710.6660.6610.6550.6500.6440.6380.633																	
0.728	0.724	0.7200.7150.7110.7070.7020.6970.6930.6880.6830.6780.6730.6680.6630.6570.6520.6460.6400.634																	
0.730	0.726	0.7220.7170.7130.7080.7040.6990.6950.6900.6850.6800.6750.6700.6650.6590.6540.6480.6420.636																	
0.732	0.728	0.7240.7190.7150.7100.7060.7010.6970.6920.6870.6820.6770.6720.6660.6610.6550.6500.6440.638																	
0.734	0.730	0.7250.7210.7170.7120.7080.7030.6980.6940.6890.6840.6790.6740.6680.6630.6570.6520.6460.640																	
0.736	0.732	0.7270.7230.7190.7140.7100.7050.7000.6960.6910.6860.6810.6760.6700.6650.6590.6540.6480.642																	
0.738	0.734	0.7290.7250.7210.7160.7120.7070.7020.6980.6930.6880.6830.6780.6720.6670.6610.6550.6500.644																	
0.740	0.735	0.7310.7270.7220.7180.7140.7090.7040.6990.6950.6900.6840.6790.6740.6680.6630.6570.6510.645																	
0.742	0.738	0.7330.7290.7250.7200.7160.7110.7060.7010.6960.6910.6860.6810.6760.6700.6650.6590.6530.647																	
0.744	0.739	0.7350.7310.7260.7220.7170.7130.7080.7030.6980.6930.6880.6830.6780.6720.6670.6610.6550.649																	
0.746	0.741	0.7370.7330.7280.7240.7190.7150.7100.7050.7000.6950.6900.6850.6800.6740.6690.6630.6570.651																	

续表

$t, ^\circ\text{C}$ $p, 10^2\text{Pa}$	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
790	0.8160	0.8130	0.8090	0.8050	0.8020	0.7980	0.7940	0.7910	0.7870	0.7830	0.7790	0.7760	0.7720	0.7680	0.7640	0.7600	0.7560	0.7520
792	0.8180	0.8150	0.8110	0.8080	0.8040	0.8000	0.7960	0.7930	0.7890	0.7850	0.7820	0.7780	0.7740	0.7700	0.7660	0.7620	0.7580	0.7540
794	0.8200	0.8170	0.8130	0.8100	0.8060	0.8020	0.7990	0.7950	0.7910	0.7870	0.7830	0.7800	0.7760	0.7720	0.7680	0.7640	0.7600	0.7560
796	0.8230	0.8190	0.8150	0.8120	0.8080	0.8040	0.8010	0.7970	0.7930	0.7890	0.7850	0.7820	0.7780	0.7740	0.7700	0.7660	0.7620	0.7580
798	0.8250	0.8210	0.8170	0.8140	0.8100	0.8060	0.8030	0.7990	0.7950	0.7910	0.7880	0.7840	0.7800	0.7760	0.7720	0.7680	0.7640	0.7600
800	0.8270	0.8230	0.8190	0.8160	0.8120	0.8080	0.8050	0.8010	0.7970	0.7930	0.7900	0.7860	0.7820	0.7780	0.7740	0.7700	0.7660	0.7620
802	0.8290	0.8250	0.8220	0.8180	0.8140	0.8100	0.8070	0.8030	0.7990	0.7950	0.7920	0.7880	0.7840	0.7800	0.7760	0.7720	0.7680	0.7640
804	0.8310	0.8270	0.8240	0.8200	0.8160	0.8120	0.8090	0.8050	0.8010	0.7970	0.7940	0.7900	0.7860	0.7820	0.7780	0.7740	0.7700	0.7660
806	0.8330	0.8290	0.8260	0.8220	0.8180	0.8150	0.8110	0.8070	0.8030	0.7990	0.7960	0.7920	0.7880	0.7840	0.7800	0.7760	0.7720	0.7680
808	0.8350	0.8310	0.8280	0.8240	0.8200	0.8170	0.8130	0.8090	0.8050	0.8020	0.7980	0.7940	0.7900	0.7860	0.7820	0.7780	0.7740	0.7700
810	0.8370	0.8330	0.8300	0.8260	0.8220	0.8190	0.8150	0.8110	0.8070	0.8040	0.8000	0.7960	0.7920	0.7880	0.7840	0.7800	0.7760	0.7710
812	0.8390	0.8360	0.8320	0.8280	0.8240	0.8210	0.8170	0.8130	0.8090	0.8060	0.8020	0.7980	0.7940	0.7900	0.7860	0.7820	0.7780	0.7730
814	0.8410	0.8380	0.8340	0.8300	0.8260	0.8230	0.8190	0.8150	0.8110	0.8080	0.8040	0.8000	0.7960	0.7920	0.7880	0.7840	0.7800	0.7750
816	0.8430	0.8400	0.8360	0.8320	0.8290	0.8250	0.8210	0.8170	0.8130	0.8100	0.8060	0.8020	0.7980	0.7940	0.7900	0.7860	0.7820	0.7770
818	0.8450	0.8420	0.8380	0.8340	0.8310	0.8270	0.8230	0.8190	0.8160	0.8120	0.8080	0.8040	0.8000	0.7960	0.7920	0.7880	0.7840	0.7790
820	0.8480	0.8440	0.8400	0.8360	0.8330	0.8290	0.8250	0.8210	0.8180	0.8140	0.8100	0.8060	0.8020	0.7980	0.7940	0.7900	0.7860	0.7810
822	0.8500	0.8460	0.8420	0.8380	0.8350	0.8310	0.8270	0.8230	0.8200	0.8160	0.8120	0.8080	0.8040	0.8000	0.7960	0.7920	0.7880	0.7830
824	0.8520	0.8480	0.8440	0.8410	0.8370	0.8330	0.8290	0.8250	0.8220	0.8180	0.8140	0.8100	0.8060	0.8020	0.7980	0.7940	0.7890	0.7850
826	0.8540	0.8500	0.8460	0.8430	0.8390	0.8350	0.8310	0.8270	0.8240	0.8200	0.8160	0.8120	0.8080	0.8040	0.8000	0.7960	0.7910	0.7870
828	0.8560	0.8520	0.8480	0.8450	0.8410	0.8370	0.8330	0.8300	0.8260	0.8220	0.8180	0.8140	0.8100	0.8060	0.8020	0.7980	0.7930	0.7890
830	0.8580	0.8540	0.8500	0.8470	0.8430	0.8390	0.8350	0.8320	0.8280	0.8240	0.8200	0.8160	0.8120	0.8080	0.8040	0.8000	0.7950	0.7910
832	0.8600	0.8560	0.8530	0.8490	0.8450	0.8410	0.8370	0.8340	0.8300	0.8260	0.8220	0.8180	0.8140	0.8100	0.8060	0.8020	0.7970	0.7930

A1

23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
0.748	0.743	0.7390.7350	0.7300.7260	0.7210.7170	0.7120.7070	0.7020.6970	0.6920.6870	0.6810.6760	0.6700.6650	0.6590.653									
0.750	0.745	0.7410.7370	0.7320.7280	0.7230.7190	0.7140.7090	0.7040.6990	0.6940.6890	0.6830.6780	0.6720.6670	0.6610.655									
0.752	0.747	0.7430.7390	0.7340.7300	0.7250.7200	0.7160.7110	0.7060.7010	0.6960.6910	0.6850.6800	0.6740.6680	0.6630.657									
0.754	0.749	0.7450.7410	0.7360.7320	0.7270.7220	0.7180.7130	0.7080.7030	0.6980.6920	0.6870.6820	0.6760.6700	0.6640.658									
0.755	0.751	0.7470.7430	0.7380.7340	0.7290.7240	0.7200.7150	0.7100.7050	0.7000.6940	0.6890.6830	0.6780.6720	0.6660.660									
0.757	0.753	0.7490.7440	0.7400.7350	0.7310.7260	0.7210.7170	0.7120.7070	0.7010.6960	0.6910.6850	0.6800.6740	0.6680.662									
0.759	0.755	0.7510.7460	0.7420.7370	0.7330.7280	0.7230.7180	0.7140.7080	0.7030.6980	0.6930.6870	0.6820.6760	0.6700.664									
0.761	0.757	0.7530.7480	0.7440.7390	0.7350.7300	0.7250.7200	0.7150.7100	0.7050.7000	0.6940.6890	0.6830.6780	0.6720.666									
0.763	0.759	0.7550.7500	0.7460.7410	0.7370.7320	0.7270.7220	0.7170.7120	0.7070.7020	0.6960.6910	0.6850.6800	0.6740.668									
0.765	0.761	0.7570.7520	0.7480.7430	0.7390.7340	0.7290.7240	0.7190.7140	0.7090.7040	0.6980.6930	0.6870.6810	0.6750.669									
0.767	0.763	0.7590.7540	0.7500.7450	0.7410.7360	0.7310.7260	0.7210.7160	0.7110.7060	0.7000.6950	0.6890.6830	0.6770.671									
0.769	0.765	0.7600.7560	0.7520.7470	0.7420.7380	0.7330.7280	0.7230.7180	0.7130.7070	0.7020.6960	0.6910.6850	0.6790.673									
0.771	0.767	0.7620.7580	0.7540.7490	0.7440.7400	0.7350.7300	0.7250.7200	0.7150.7090	0.7040.6980	0.6930.6870	0.6810.675									
0.773	0.769	0.7640.7600	0.7560.7510	0.7460.7420	0.7370.7320	0.7270.7220	0.7160.7110	0.7060.7000	0.6940.6890	0.6830.677									
0.775	0.771	0.7660.7620	0.7570.7530	0.7480.7430	0.7390.7340	0.7290.7240	0.7180.7130	0.7080.7020	0.6960.6910	0.6850.679									
0.777	0.773	0.7680.7640	0.7590.7550	0.7500.7450	0.7400.7360	0.7310.7250	0.7200.7150	0.7090.7040	0.6980.6920	0.6860.680									
0.779	0.775	0.7700.7660	0.7610.7570	0.7520.7470	0.7420.7380	0.7320.7270	0.7220.7170	0.7110.7060	0.7000.6940	0.6880.682									
0.781	0.777	0.7720.7680	0.7630.7590	0.7540.7490	0.7440.7390	0.7340.7290	0.7240.7190	0.7130.7080	0.7020.6960	0.6900.684									
0.783	0.779	0.7740.7700	0.7650.7600	0.7560.7510	0.7460.7410	0.7360.7310	0.7260.7210	0.7150.7100	0.7040.6980	0.6920.686									
0.785	0.781	0.7760.7720	0.7670.7620	0.7580.7530	0.7480.7430	0.7380.7330	0.7280.7220	0.7170.7110	0.7060.7000	0.6940.688									
0.787	0.783	0.7780.7740	0.7690.7640	0.7600.7550	0.7500.7450	0.7400.7350	0.7300.7240	0.7190.7130	0.7080.7020	0.6960.690									
0.789	0.784	0.7800.7760	0.7710.7660	0.7620.7570	0.7520.7470	0.7420.7370	0.7320.7260	0.7210.7150	0.7090.7040	0.6980.692									

续表

$t, ^\circ\text{C}$ $p, 10^2\text{Pa}$	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
834	0.8620	0.8580	0.8550	0.8510	0.8470	0.8430	0.8390	0.8360	0.8320	0.8280	0.8240	0.8200	0.8160	0.8120	0.8080	0.8040	0.7990	0.795
836	0.8640	0.8600	0.8570	0.8530	0.8490	0.8450	0.8420	0.8380	0.8340	0.8300	0.8260	0.8220	0.8180	0.8140	0.8100	0.8060	0.8010	0.797
838	0.8660	0.8630	0.8590	0.8550	0.8510	0.8470	0.8440	0.8400	0.8360	0.8320	0.8280	0.8240	0.8200	0.8160	0.8120	0.8080	0.8030	0.799
840	0.8680	0.8650	0.8610	0.8570	0.8530	0.8490	0.8460	0.8420	0.8380	0.8340	0.8300	0.8260	0.8220	0.8180	0.8140	0.8100	0.8050	0.801
842	0.8710	0.8670	0.8630	0.8590	0.8550	0.8520	0.8480	0.8440	0.8400	0.8360	0.8320	0.8280	0.8240	0.8200	0.8160	0.8110	0.8070	0.803
844	0.8730	0.8690	0.8650	0.8610	0.8570	0.8540	0.8500	0.8460	0.8420	0.8380	0.8340	0.8300	0.8260	0.8220	0.8180	0.8130	0.8090	0.805
846	0.8750	0.8710	0.8670	0.8630	0.8590	0.8560	0.8520	0.8480	0.8440	0.8400	0.8360	0.8320	0.8280	0.8240	0.8200	0.8150	0.8110	0.807
848	0.8770	0.8730	0.8690	0.8650	0.8620	0.8580	0.8540	0.8500	0.8460	0.8420	0.8380	0.8340	0.8300	0.8260	0.8220	0.8170	0.8130	0.809
850	0.8790	0.8750	0.8710	0.8670	0.8640	0.8600	0.8560	0.8520	0.8480	0.8440	0.8400	0.8360	0.8320	0.8280	0.8240	0.8190	0.8150	0.811
852	0.8810	0.8770	0.8730	0.8700	0.8660	0.8620	0.8580	0.8540	0.8500	0.8460	0.8420	0.8380	0.8340	0.8300	0.8260	0.8210	0.8170	0.813
854	0.8830	0.8790	0.8750	0.8720	0.8680	0.8640	0.8600	0.8560	0.8520	0.8480	0.8440	0.8400	0.8360	0.8320	0.8280	0.8230	0.8190	0.815
856	0.8850	0.8810	0.8780	0.8740	0.8700	0.8660	0.8620	0.8580	0.8540	0.8500	0.8460	0.8420	0.8380	0.8340	0.8300	0.8250	0.8210	0.817
858	0.8870	0.8830	0.8800	0.8760	0.8720	0.8680	0.8640	0.8600	0.8560	0.8520	0.8480	0.8440	0.8400	0.8360	0.8320	0.8270	0.8230	0.819
860	0.8890	0.8860	0.8820	0.8780	0.8740	0.8700	0.8660	0.8620	0.8580	0.8540	0.8500	0.8460	0.8420	0.8380	0.8340	0.8290	0.8250	0.821
862	0.8910	0.8880	0.8840	0.8800	0.8760	0.8720	0.8680	0.8640	0.8600	0.8560	0.8520	0.8480	0.8440	0.8400	0.8360	0.8310	0.8270	0.823
864	0.8940	0.8900	0.8860	0.8820	0.8780	0.8740	0.8700	0.8660	0.8620	0.8580	0.8540	0.8500	0.8460	0.8420	0.8380	0.8330	0.8290	0.825
866	0.8960	0.8920	0.8880	0.8840	0.8800	0.8760	0.8720	0.8680	0.8640	0.8600	0.8560	0.8520	0.8480	0.8440	0.8400	0.8350	0.8310	0.827
868	0.8980	0.8940	0.8900	0.8860	0.8820	0.8780	0.8740	0.8700	0.8660	0.8620	0.8580	0.8540	0.8500	0.8460	0.8420	0.8370	0.8330	0.829
870	0.9000	0.8960	0.8920	0.8880	0.8840	0.8800	0.8760	0.8720	0.8680	0.8640	0.8600	0.8560	0.8520	0.8480	0.8440	0.8390	0.8350	0.831
872	0.9020	0.8980	0.8940	0.8900	0.8860	0.8820	0.8780	0.8740	0.8700	0.8660	0.8620	0.8580	0.8540	0.8500	0.8460	0.8410	0.8370	0.833
874	0.9040	0.9000	0.8960	0.8920	0.8880	0.8840	0.8800	0.8760	0.8720	0.8680	0.8640	0.8600	0.8560	0.8520	0.8470	0.8430	0.8390	0.834
876	0.9060	0.9020	0.8980	0.8940	0.8900	0.8860	0.8820	0.8780	0.8740	0.8700	0.8660	0.8620	0.8580	0.8540	0.8490	0.8450	0.8410	0.836
878	0.9080	0.9040	0.9000	0.8960	0.8920	0.8880	0.8840	0.8800	0.8760	0.8720	0.8680	0.8640	0.8600	0.8560	0.8510	0.8470	0.8430	0.838

A1

23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
0.791	0.786	0.782	0.777	0.773	0.768	0.764	0.759	0.754	0.749	0.744	0.739	0.733	0.728	0.723	0.717	0.711	0.706	0.700	0.693
0.793	0.788	0.784	0.779	0.775	0.770	0.766	0.761	0.756	0.751	0.746	0.741	0.735	0.730	0.724	0.719	0.713	0.707	0.701	0.695
0.795	0.790	0.786	0.781	0.777	0.772	0.767	0.763	0.758	0.753	0.748	0.742	0.737	0.732	0.726	0.721	0.715	0.709	0.703	0.697
0.797	0.792	0.788	0.783	0.779	0.774	0.769	0.764	0.760	0.755	0.750	0.744	0.739	0.734	0.728	0.723	0.717	0.711	0.705	0.699
0.799	0.794	0.790	0.785	0.781	0.776	0.771	0.766	0.762	0.756	0.751	0.746	0.741	0.736	0.730	0.724	0.719	0.713	0.707	0.701
0.801	0.796	0.792	0.787	0.783	0.778	0.773	0.768	0.763	0.758	0.753	0.748	0.743	0.738	0.732	0.726	0.721	0.715	0.709	0.703
0.802	0.798	0.794	0.789	0.785	0.780	0.775	0.770	0.765	0.760	0.755	0.750	0.745	0.739	0.734	0.728	0.722	0.717	0.711	0.704
0.804	0.800	0.796	0.791	0.786	0.782	0.777	0.772	0.767	0.762	0.757	0.752	0.747	0.741	0.736	0.730	0.724	0.718	0.712	0.706
0.806	0.802	0.798	0.793	0.788	0.784	0.779	0.774	0.769	0.764	0.759	0.754	0.748	0.743	0.738	0.732	0.726	0.720	0.714	0.708
0.808	0.804	0.800	0.795	0.790	0.786	0.781	0.776	0.771	0.766	0.761	0.756	0.750	0.745	0.740	0.734	0.728	0.722	0.716	0.710
0.810	0.806	0.801	0.797	0.792	0.788	0.783	0.778	0.773	0.768	0.763	0.758	0.752	0.747	0.741	0.736	0.730	0.724	0.718	0.712
0.812	0.808	0.803	0.799	0.794	0.790	0.785	0.780	0.775	0.770	0.765	0.760	0.754	0.749	0.743	0.738	0.732	0.726	0.720	0.714
0.814	0.810	0.805	0.801	0.796	0.791	0.787	0.782	0.777	0.772	0.767	0.761	0.756	0.751	0.745	0.739	0.734	0.728	0.722	0.716
0.816	0.812	0.807	0.803	0.798	0.793	0.790	0.784	0.779	0.774	0.768	0.763	0.758	0.752	0.747	0.741	0.736	0.730	0.724	0.717
0.818	0.814	0.809	0.805	0.800	0.795	0.791	0.786	0.781	0.776	0.770	0.765	0.760	0.754	0.749	0.743	0.737	0.731	0.725	0.719
0.820	0.816	0.811	0.807	0.802	0.797	0.792	0.788	0.782	0.778	0.772	0.767	0.762	0.756	0.751	0.745	0.739	0.733	0.727	0.721
0.822	0.818	0.813	0.809	0.804	0.799	0.794	0.789	0.784	0.779	0.774	0.769	0.764	0.758	0.753	0.747	0.741	0.735	0.729	0.723
0.824	0.820	0.815	0.810	0.806	0.801	0.796	0.791	0.786	0.781	0.776	0.771	0.766	0.760	0.754	0.749	0.743	0.737	0.731	0.725
0.826	0.822	0.817	0.812	0.808	0.803	0.798	0.793	0.788	0.783	0.778	0.773	0.767	0.762	0.756	0.751	0.745	0.739	0.733	0.727
0.828	0.824	0.819	0.814	0.810	0.805	0.800	0.795	0.790	0.785	0.780	0.775	0.769	0.764	0.758	0.752	0.747	0.741	0.735	0.728
0.830	0.826	0.821	0.816	0.812	0.807	0.802	0.797	0.792	0.787	0.782	0.776	0.771	0.766	0.760	0.754	0.748	0.743	0.736	0.730
0.832	0.828	0.823	0.818	0.814	0.809	0.804	0.799	0.794	0.789	0.784	0.778	0.773	0.768	0.762	0.756	0.750	0.744	0.738	0.732
0.834	0.829	0.825	0.820	0.816	0.811	0.806	0.801	0.796	0.791	0.786	0.780	0.775	0.769	0.764	0.758	0.752	0.746	0.740	0.734

续表

$t, ^\circ\text{C}$ $p, 10^2\text{Pa}$	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
880	0.9100	0.9060	0.9020	0.8980	0.8940	0.8900	0.8860	0.8820	0.8780	0.8740	0.8700	0.8660	0.8620	0.8580	0.8530	0.8490	0.8450	0.840
882	0.9120	0.9080	0.9040	0.9000	0.8970	0.8930	0.8890	0.8840	0.8800	0.8760	0.8720	0.8680	0.8640	0.8600	0.8550	0.8510	0.8470	0.842
884	0.9140	0.9100	0.9070	0.9030	0.8990	0.8950	0.8910	0.8870	0.8820	0.8780	0.8740	0.8700	0.8660	0.8620	0.8570	0.8530	0.8490	0.844
886	0.9170	0.9130	0.9090	0.9050	0.9010	0.8970	0.8930	0.8890	0.8840	0.8800	0.8760	0.8720	0.8680	0.8640	0.8590	0.8550	0.8510	0.846
888	0.9190	0.9150	0.9110	0.9070	0.9030	0.8990	0.8950	0.8910	0.8870	0.8820	0.8780	0.8740	0.8700	0.8660	0.8610	0.8570	0.8530	0.848
890	0.9210	0.9170	0.9130	0.9090	0.9050	0.9010	0.8970	0.8930	0.8890	0.8840	0.8800	0.8760	0.8720	0.8680	0.8630	0.8590	0.8550	0.850
892	0.9230	0.9190	0.9150	0.9110	0.9070	0.9030	0.8990	0.8950	0.8910	0.8860	0.8820	0.8780	0.8740	0.8700	0.8650	0.8610	0.8570	0.852
894	0.9250	0.9210	0.9170	0.9130	0.9090	0.9050	0.9010	0.8970	0.8930	0.8880	0.8840	0.8800	0.8760	0.8720	0.8670	0.8630	0.8590	0.854
896	0.9270	0.9230	0.9190	0.9150	0.9110	0.9070	0.9030	0.8990	0.8950	0.8900	0.8860	0.8820	0.8780	0.8740	0.8690	0.8650	0.8610	0.856
898	0.9290	0.9250	0.9210	0.9170	0.9130	0.9090	0.9050	0.9010	0.8970	0.8930	0.8880	0.8840	0.8800	0.8760	0.8710	0.8670	0.8630	0.858
900	0.9310	0.9270	0.9230	0.9190	0.9150	0.9110	0.9070	0.9030	0.8990	0.8950	0.8900	0.8860	0.8820	0.8780	0.8730	0.8690	0.8640	0.860
902	0.9330	0.9290	0.9250	0.9210	0.9170	0.9130	0.9090	0.9050	0.9010	0.8970	0.8920	0.8880	0.8840	0.8800	0.8750	0.8710	0.8660	0.862
904	0.9350	0.9310	0.9270	0.9230	0.9190	0.9150	0.9110	0.9070	0.9030	0.8990	0.8940	0.8900	0.8860	0.8820	0.8770	0.8730	0.8680	0.864
906	0.9370	0.9330	0.9290	0.9250	0.9210	0.9170	0.9130	0.9090	0.9050	0.9010	0.8960	0.8920	0.8880	0.8840	0.8790	0.8750	0.8700	0.866
908	0.9400	0.9360	0.9310	0.9270	0.9230	0.9190	0.9150	0.9110	0.9070	0.9030	0.8980	0.8940	0.8900	0.8860	0.8810	0.8770	0.8720	0.868
910	0.9420	0.9380	0.9340	0.9290	0.9250	0.9210	0.9170	0.9130	0.9090	0.9050	0.9000	0.8960	0.8920	0.8880	0.8830	0.8790	0.8740	0.870
912	0.9440	0.9400	0.9360	0.9320	0.9270	0.9230	0.9190	0.9150	0.9110	0.9070	0.9020	0.8980	0.8940	0.8900	0.8850	0.8810	0.8760	0.872
914	0.9460	0.9420	0.9380	0.9340	0.9300	0.9250	0.9210	0.9170	0.9130	0.9090	0.9040	0.9000	0.8960	0.8920	0.8870	0.8830	0.8780	0.874
916	0.9480	0.9440	0.9400	0.9360	0.9320	0.9270	0.9230	0.9190	0.9150	0.9110	0.9070	0.9020	0.8980	0.8940	0.8890	0.8850	0.8800	0.876
918	0.9500	0.9460	0.9420	0.9380	0.9340	0.9300	0.9250	0.9210	0.9170	0.9130	0.9090	0.9040	0.9000	0.8960	0.8910	0.8870	0.8820	0.878
920	0.9520	0.9480	0.9440	0.9400	0.9360	0.9320	0.9270	0.9230	0.9190	0.9150	0.9110	0.9060	0.9020	0.8980	0.8930	0.8890	0.8840	0.880
922	0.9540	0.9500	0.9460	0.9420	0.9380	0.9340	0.9290	0.9250	0.9210	0.9170	0.9130	0.9080	0.9040	0.9000	0.8950	0.8910	0.8860	0.882

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23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
0.836	0.831	0.827	0.822	0.818	0.813	0.808	0.803	0.798	0.793	0.788	0.782	0.777	0.771	0.766	0.760	0.754	0.748	0.742	0.736
0.838	0.833	0.829	0.824	0.819	0.815	0.810	0.805	0.800	0.795	0.789	0.784	0.779	0.773	0.768	0.762	0.756	0.750	0.744	0.738
0.840	0.835	0.831	0.826	0.821	0.817	0.812	0.807	0.802	0.796	0.791	0.786	0.781	0.775	0.769	0.764	0.758	0.752	0.746	0.740
0.842	0.837	0.833	0.828	0.823	0.818	0.814	0.809	0.804	0.798	0.793	0.788	0.782	0.777	0.771	0.766	0.760	0.754	0.748	0.741
0.844	0.839	0.835	0.830	0.825	0.820	0.816	0.810	0.806	0.800	0.795	0.790	0.784	0.779	0.773	0.767	0.762	0.756	0.750	0.743
0.846	0.841	0.837	0.832	0.827	0.822	0.817	0.812	0.807	0.802	0.797	0.792	0.786	0.781	0.775	0.769	0.763	0.757	0.751	0.745
0.848	0.843	0.839	0.834	0.829	0.824	0.819	0.814	0.809	0.804	0.799	0.794	0.788	0.783	0.777	0.771	0.765	0.759	0.753	0.747
0.850	0.845	0.840	0.836	0.831	0.826	0.821	0.816	0.811	0.806	0.801	0.795	0.790	0.784	0.779	0.773	0.767	0.761	0.755	0.749
0.852	0.847	0.842	0.838	0.833	0.828	0.823	0.818	0.813	0.808	0.803	0.797	0.792	0.786	0.781	0.775	0.769	0.763	0.757	0.751
0.854	0.849	0.844	0.840	0.835	0.830	0.825	0.820	0.815	0.810	0.805	0.799	0.794	0.788	0.783	0.777	0.771	0.765	0.759	0.752
0.856	0.851	0.846	0.842	0.837	0.832	0.827	0.822	0.817	0.812	0.806	0.801	0.796	0.790	0.784	0.779	0.773	0.767	0.761	0.754
0.858	0.853	0.848	0.844	0.839	0.834	0.829	0.824	0.819	0.814	0.808	0.803	0.798	0.792	0.786	0.780	0.775	0.769	0.762	0.756
0.859	0.855	0.850	0.845	0.841	0.836	0.831	0.826	0.821	0.816	0.810	0.805	0.799	0.794	0.788	0.782	0.776	0.770	0.764	0.758
0.861	0.857	0.852	0.847	0.843	0.838	0.833	0.828	0.823	0.818	0.812	0.807	0.801	0.796	0.790	0.784	0.778	0.772	0.766	0.760
0.863	0.859	0.854	0.849	0.845	0.840	0.835	0.830	0.825	0.819	0.814	0.809	0.803	0.798	0.792	0.786	0.780	0.774	0.768	0.762
0.865	0.861	0.856	0.851	0.846	0.842	0.837	0.832	0.826	0.821	0.816	0.811	0.805	0.800	0.794	0.788	0.782	0.776	0.770	0.763
0.867	0.863	0.858	0.853	0.848	0.844	0.839	0.834	0.828	0.823	0.818	0.812	0.807	0.801	0.796	0.790	0.784	0.778	0.772	0.765
0.869	0.865	0.860	0.855	0.850	0.845	0.840	0.835	0.830	0.825	0.820	0.814	0.809	0.803	0.798	0.792	0.786	0.780	0.774	0.767
0.871	0.867	0.862	0.857	0.852	0.847	0.842	0.837	0.832	0.827	0.822	0.816	0.811	0.805	0.799	0.794	0.788	0.782	0.775	0.769
0.873	0.869	0.864	0.859	0.854	0.849	0.844	0.839	0.834	0.829	0.824	0.818	0.813	0.807	0.801	0.796	0.790	0.783	0.777	0.771
0.875	0.871	0.866	0.861	0.856	0.851	0.846	0.841	0.836	0.831	0.825	0.820	0.814	0.809	0.803	0.797	0.791	0.785	0.779	0.773
0.877	0.872	0.868	0.863	0.858	0.853	0.848	0.843	0.838	0.833	0.827	0.822	0.816	0.811	0.805	0.799	0.793	0.787	0.781	0.774

续表

$t, ^\circ\text{C}$ $p, 10^2\text{Pa}$	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
924	0.9560	0.9520	0.9480	0.9440	0.9400	0.9360	0.9320	0.9270	0.9230	0.9190	0.9150	0.9100	0.9060	0.9020	0.8970	0.8930	0.8880	0.884
926	0.9580	0.9540	0.9500	0.9460	0.9420	0.9380	0.9340	0.9290	0.9250	0.9210	0.9170	0.9120	0.9080	0.9040	0.8990	0.8950	0.8900	0.886
928	0.9600	0.9560	0.9520	0.9480	0.9440	0.9400	0.9360	0.9310	0.9270	0.9230	0.9190	0.9140	0.9100	0.9060	0.9010	0.8970	0.8920	0.888
930	0.9620	0.9580	0.9540	0.9500	0.9460	0.9420	0.9380	0.9330	0.9290	0.9250	0.9210	0.9160	0.9120	0.9080	0.9030	0.8990	0.8940	0.890
932	0.9650	0.9600	0.9560	0.9520	0.9480	0.9440	0.9400	0.9360	0.9310	0.9270	0.9230	0.9180	0.9140	0.9100	0.9050	0.9010	0.8960	0.892
934	0.9670	0.9620	0.9580	0.9540	0.9500	0.9460	0.9420	0.9380	0.9330	0.9290	0.9250	0.9200	0.9160	0.9120	0.9070	0.9030	0.8980	0.894
936	0.9690	0.9650	0.9600	0.9560	0.9520	0.9480	0.9440	0.9400	0.9350	0.9310	0.9270	0.9220	0.9180	0.9140	0.9090	0.9050	0.9000	0.896
938	0.9710	0.9670	0.9630	0.9580	0.9540	0.9500	0.9460	0.9420	0.9370	0.9330	0.9290	0.9240	0.9200	0.9160	0.9110	0.9070	0.9020	0.897
940	0.9730	0.9690	0.9650	0.9600	0.9560	0.9520	0.9480	0.9440	0.9390	0.9350	0.9310	0.9260	0.9220	0.9180	0.9130	0.9090	0.9040	0.899
942	0.9750	0.9710	0.9670	0.9620	0.9580	0.9540	0.9500	0.9460	0.9410	0.9370	0.9330	0.9280	0.9240	0.9200	0.9150	0.9110	0.9060	0.901
944	0.9770	0.9730	0.9690	0.9650	0.9600	0.9560	0.9520	0.9480	0.9430	0.9390	0.9350	0.9300	0.9260	0.9220	0.9170	0.9130	0.9080	0.903
946	0.9790	0.9750	0.9710	0.9670	0.9620	0.9580	0.9540	0.9500	0.9450	0.9410	0.9370	0.9320	0.9280	0.9240	0.9190	0.9150	0.9100	0.905
948	0.9810	0.9770	0.9730	0.9690	0.9640	0.9600	0.9560	0.9520	0.9480	0.9430	0.9390	0.9340	0.9300	0.9260	0.9210	0.9160	0.9120	0.907
950	0.9830	0.9790	0.9750	0.9710	0.9670	0.9620	0.9580	0.9540	0.9500	0.9450	0.9410	0.9360	0.9320	0.9280	0.9230	0.9180	0.9140	0.909
952	0.9850	0.9810	0.9770	0.9730	0.9690	0.9640	0.9600	0.9560	0.9520	0.9470	0.9430	0.9380	0.9340	0.9300	0.9250	0.9200	0.9160	0.911
954	0.9880	0.9830	0.9790	0.9750	0.9710	0.9660	0.9620	0.9580	0.9540	0.9490	0.9450	0.9400	0.9360	0.9320	0.9270	0.9220	0.9180	0.913
956	0.9900	0.9850	0.9810	0.9770	0.9730	0.9680	0.9640	0.9600	0.9560	0.9510	0.9470	0.9420	0.9380	0.9340	0.9290	0.9240	0.9200	0.915
958	0.9920	0.9880	0.9830	0.9790	0.9750	0.9710	0.9660	0.9620	0.9580	0.9530	0.9490	0.9440	0.9400	0.9350	0.9310	0.9260	0.9220	0.917
960	0.9940	0.9900	0.9850	0.9810	0.9770	0.9730	0.9680	0.9640	0.9600	0.9550	0.9510	0.9460	0.9420	0.9380	0.9330	0.9280	0.9240	0.919
962	0.9960	0.9920	0.9870	0.9830	0.9790	0.9750	0.9700	0.9660	0.9620	0.9570	0.9530	0.9480	0.9440	0.9400	0.9350	0.9300	0.9260	0.921
964	0.9980	0.9940	0.9900	0.9850	0.9810	0.9770	0.9720	0.9680	0.9640	0.9590	0.9550	0.9500	0.9460	0.9420	0.9370	0.9320	0.9280	0.923
966	1.0000	0.9960	0.9920	0.9870	0.9830	0.9790	0.9740	0.9700	0.9660	0.9610	0.9570	0.9520	0.9480	0.9440	0.9390	0.9340	0.9300	0.925
968	1.0020	0.9980	0.9940	0.9890	0.9850	0.9810	0.9760	0.9720	0.9680	0.9630	0.9590	0.9540	0.9500	0.9460	0.9410	0.9360	0.9320	0.927

A1

23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
0.879	0.874	0.8700.8650.8600.8550.8500.8450.8400.8350.8290.8240.8180.8130.8070.8010.7950.7890.7830.776																	
0.881	0.876	0.8720.8670.8620.8570.8520.8470.8420.8360.8310.8260.8200.8150.8090.8030.7970.7910.7850.778																	
0.883	0.878	0.8740.8690.8640.8590.8540.8490.8440.8380.8330.8280.8220.8160.8110.8050.7990.7930.7860.780																	
0.885	0.880	0.8760.8710.8660.8610.8560.8510.8460.8400.8350.8300.8240.8180.8130.8070.8010.7950.7880.782																	
0.887	0.882	0.8780.8730.8680.8630.8580.8530.8480.8420.8370.8310.8260.8200.8140.8080.8020.7960.7900.784																	
0.889	0.884	0.8790.8750.8700.8650.8600.8550.8490.8440.8390.8330.8280.8220.8160.8100.8040.7980.7920.786																	
0.891	0.886	0.8810.8770.8720.8670.8620.8560.8510.8460.8410.8350.8300.8240.8180.8120.8060.8000.7940.787																	
0.893	0.888	0.8830.8790.8740.8690.8640.8580.8530.8480.8430.8370.8320.8260.8200.8140.8080.8020.7960.789																	
0.895	0.890	0.8850.8800.8760.8710.8660.8600.8550.8500.8440.8390.8330.8280.8220.8160.8100.8040.7980.791																	
0.897	0.892	0.8870.8820.8780.8730.8670.8620.8570.8520.8460.8410.8350.8300.8240.8180.8120.8060.7990.793																	
0.899	0.894	0.8890.8840.8790.8740.8690.8640.8590.8540.8480.8430.8370.8320.8260.8200.8140.8080.8010.795																	
0.901	0.896	0.8910.8860.8810.8760.8710.8660.8610.8560.8500.8450.8390.8330.8280.8220.8160.8090.8030.797																	
0.903	0.898	0.8930.8880.8830.8780.8730.8680.8630.8580.8520.8460.8410.8350.8290.8240.8170.8110.8050.798																	
0.905	0.900	0.8950.8900.8850.8800.8750.8700.8650.8590.8540.8480.8430.8370.8310.8250.8190.8130.8070.800																	
0.907	0.902	0.8970.8920.8870.8820.8770.8720.8670.8610.8560.8500.8450.8390.8330.8270.8210.8150.8090.802																	
0.908	0.904	0.8990.8940.8890.8840.8790.8740.8680.8630.8580.8520.8470.8410.8350.8290.8230.8170.8100.804																	
0.910	0.906	0.9010.8960.8910.8860.8810.8760.8700.8650.8600.8540.8480.8430.8370.8310.8250.8190.8120.806																	
0.912	0.908	0.9030.8980.8930.8880.8830.8780.8720.8670.8620.8560.8500.8450.8390.8330.8270.8210.8140.808																	
0.914	0.910	0.9050.9000.8950.8900.8850.8800.8740.8690.8630.8580.8520.8460.8410.8350.8290.8220.8160.810																	
0.916	0.912	0.9070.9020.8970.8920.8870.8810.8760.8710.8650.8600.8540.8480.8430.8370.8300.8240.8180.811																	
0.918	0.914	0.9090.9040.8990.8940.8890.8830.8780.8730.8670.8620.8560.8500.8440.8380.8320.8260.8200.813																	
0.920	0.916	0.9110.9060.9010.8960.8910.8850.8800.8750.8690.8640.8580.8520.8460.8400.8340.8280.8220.815																	
0.922	0.917	0.9130.9080.9030.8980.8920.8870.8820.8760.8710.8660.8600.8540.8480.8420.8360.8300.8230.817																	

续表

$t, ^\circ\text{C}$ $p, 10^2\text{Pa}$	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
970	1.0041	1.0000	0.9960	0.9910	0.9870	0.9830	0.9790	0.9740	0.9700	0.9650	0.9610	0.9570	0.9520	0.9480	0.9430	0.9380	0.9340	0.929
972	1.0061	1.0020	0.9980	0.9940	0.9890	0.9850	0.9810	0.9760	0.9720	0.9670	0.9630	0.9590	0.9540	0.9500	0.9450	0.9400	0.9360	0.931
974	1.0081	1.0041	1.0000	0.9960	0.9910	0.9870	0.9830	0.9780	0.9740	0.9700	0.9650	0.9610	0.9560	0.9520	0.9470	0.9420	0.9380	0.933
976	1.0111	1.0061	1.0020	0.9980	0.9930	0.9890	0.9850	0.9800	0.9760	0.9720	0.9670	0.9630	0.9580	0.9540	0.9490	0.9440	0.9400	0.935
978	1.0131	1.0081	1.0041	1.0000	0.9950	0.9910	0.9870	0.9820	0.9780	0.9740	0.9690	0.9650	0.9600	0.9560	0.9510	0.9460	0.9420	0.937
980	1.0151	1.0101	1.0061	1.0020	0.9980	0.9930	0.9890	0.9840	0.9800	0.9760	0.9710	0.9670	0.9620	0.9580	0.9530	0.9480	0.9440	0.939
982	1.0171	1.0121	1.0081	1.0041	1.0000	0.9950	0.9910	0.9860	0.9820	0.9780	0.9730	0.9690	0.9640	0.9600	0.9550	0.9500	0.9460	0.941
984	1.0191	1.0151	1.0101	1.0061	1.0020	0.9970	0.9930	0.9880	0.9840	0.9800	0.9750	0.9710	0.9660	0.9620	0.9570	0.9520	0.9480	0.943
986	1.0211	1.0171	1.0121	1.0081	1.0040	0.9990	0.9950	0.9900	0.9860	0.9820	0.9770	0.9730	0.9680	0.9640	0.9590	0.9540	0.9500	0.945
988	1.0231	1.0191	1.0141	1.0101	1.0061	1.0010	0.9970	0.9930	0.9880	0.9840	0.9790	0.9750	0.9700	0.9660	0.9610	0.9560	0.9510	0.947
990	1.0251	1.0211	1.0161	1.0121	1.0081	1.0030	0.9990	0.9950	0.9900	0.9860	0.9810	0.9770	0.9720	0.9680	0.9630	0.9580	0.9530	0.949
992	1.0271	1.0231	1.0191	1.0141	1.0101	1.0051	1.0010	0.9970	0.9920	0.9880	0.9830	0.9790	0.9740	0.9700	0.9650	0.9600	0.9550	0.951
994	1.0291	1.0251	1.0211	1.0161	1.0121	1.0081	1.0030	0.9990	0.9940	0.9900	0.9850	0.9810	0.9760	0.9720	0.9670	0.9620	0.9570	0.953
996	1.0311	1.0271	1.0231	1.0181	1.0141	1.0101	1.0051	1.0010	0.9960	0.9920	0.9870	0.9830	0.9780	0.9740	0.9690	0.9640	0.9590	0.955
998	1.0341	1.0291	1.0251	1.0201	1.0161	1.0121	1.0071	1.0030	0.9980	0.9940	0.9890	0.9850	0.9800	0.9760	0.9710	0.9660	0.9610	0.957
1 000	1.0361	1.0311	1.0271	1.0221	1.0181	1.0141	1.0091	1.0051	1.0000	0.9960	0.9910	0.9870	0.9820	0.9780	0.9730	0.9680	0.9630	0.959
1 002	1.0381	1.0331	1.0291	1.0241	1.0201	1.0161	1.0111	1.0071	1.0020	0.9980	0.9930	0.9890	0.9840	0.9790	0.9750	0.9700	0.9650	0.961
1 004	1.0401	1.0351	1.0311	1.0271	1.0221	1.0181	1.0131	1.0091	1.0041	1.0000	0.9950	0.9910	0.9860	0.9810	0.9770	0.9720	0.9670	0.962
1 006	1.0421	1.0381	1.0331	1.0291	1.0241	1.0201	1.0151	1.0111	1.0061	1.0020	0.9970	0.9930	0.9880	0.9830	0.9790	0.9740	0.9690	0.964
1 008	1.0441	1.0401	1.0351	1.0311	1.0261	1.0221	1.0171	1.0131	1.0081	1.0040	0.9990	0.9950	0.9900	0.9850	0.9810	0.9760	0.9710	0.966
1 010	1.0461	1.0421	1.0371	1.0331	1.0281	1.0241	1.0191	1.0151	1.0101	1.0061	1.0010	0.9970	0.9920	0.9870	0.9830	0.9780	0.9730	0.968
1 012	1.0481	1.0441	1.0391	1.0351	1.0301	1.0261	1.0221	1.0171	1.0121	1.0081	1.0030	0.9990	0.9940	0.9890	0.9850	0.9800	0.9750	0.970

A1

23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
0.924	0.919	0.914	0.910	0.905	0.900	0.894	0.889	0.884	0.878	0.873	0.867	0.862	0.856	0.850	0.844	0.838	0.832	0.825	0.819
0.926	0.921	0.916	0.912	0.906	0.901	0.896	0.891	0.886	0.880	0.875	0.869	0.864	0.858	0.852	0.846	0.840	0.834	0.827	0.821
0.928	0.923	0.918	0.913	0.908	0.903	0.898	0.893	0.888	0.882	0.877	0.871	0.865	0.860	0.854	0.848	0.842	0.835	0.829	0.822
0.930	0.925	0.920	0.915	0.910	0.905	0.900	0.895	0.890	0.884	0.879	0.873	0.867	0.862	0.856	0.850	0.844	0.837	0.831	0.824
0.932	0.927	0.922	0.917	0.912	0.907	0.902	0.897	0.891	0.886	0.880	0.875	0.869	0.863	0.858	0.852	0.845	0.839	0.833	0.826
0.934	0.929	0.924	0.919	0.914	0.909	0.904	0.899	0.893	0.888	0.882	0.877	0.871	0.865	0.859	0.853	0.847	0.841	0.835	0.828
0.936	0.931	0.926	0.921	0.916	0.911	0.906	0.901	0.895	0.890	0.884	0.879	0.873	0.867	0.861	0.855	0.849	0.843	0.836	0.830
0.938	0.933	0.928	0.923	0.918	0.913	0.908	0.903	0.897	0.892	0.886	0.881	0.875	0.869	0.863	0.857	0.851	0.845	0.838	0.832
0.940	0.935	0.930	0.925	0.920	0.915	0.910	0.904	0.899	0.894	0.888	0.882	0.877	0.871	0.865	0.859	0.853	0.846	0.840	0.834
0.942	0.937	0.932	0.927	0.922	0.917	0.912	0.906	0.901	0.896	0.890	0.884	0.879	0.873	0.867	0.861	0.855	0.848	0.842	0.835
0.944	0.939	0.934	0.929	0.924	0.919	0.914	0.908	0.903	0.898	0.892	0.886	0.881	0.875	0.869	0.863	0.856	0.850	0.844	0.837
0.946	0.941	0.936	0.931	0.926	0.921	0.916	0.910	0.905	0.899	0.894	0.888	0.882	0.877	0.871	0.865	0.858	0.852	0.846	0.839
0.948	0.943	0.938	0.933	0.928	0.923	0.917	0.912	0.907	0.901	0.896	0.890	0.884	0.878	0.872	0.866	0.860	0.854	0.848	0.841
0.950	0.945	0.940	0.935	0.930	0.925	0.919	0.914	0.909	0.903	0.898	0.892	0.886	0.880	0.874	0.868	0.862	0.856	0.849	0.843
0.952	0.947	0.942	0.937	0.932	0.927	0.921	0.916	0.911	0.905	0.900	0.894	0.888	0.882	0.876	0.870	0.864	0.858	0.851	0.845
0.954	0.949	0.944	0.939	0.934	0.928	0.923	0.918	0.913	0.907	0.901	0.896	0.890	0.884	0.878	0.872	0.866	0.860	0.853	0.846
0.956	0.951	0.946	0.941	0.936	0.930	0.925	0.920	0.914	0.909	0.903	0.898	0.892	0.886	0.880	0.874	0.868	0.861	0.855	0.848
0.958	0.953	0.948	0.943	0.938	0.932	0.927	0.922	0.916	0.911	0.905	0.900	0.894	0.888	0.882	0.876	0.870	0.863	0.857	0.850
0.960	0.955	0.950	0.945	0.939	0.934	0.929	0.924	0.918	0.913	0.907	0.901	0.896	0.890	0.884	0.878	0.871	0.865	0.859	0.852
0.962	0.957	0.952	0.947	0.941	0.936	0.931	0.926	0.920	0.915	0.909	0.903	0.898	0.892	0.886	0.880	0.873	0.867	0.860	0.854
0.963	0.959	0.954	0.948	0.943	0.938	0.933	0.928	0.922	0.916	0.911	0.905	0.899	0.894	0.888	0.881	0.875	0.869	0.862	0.856
0.965	0.961	0.955	0.950	0.945	0.940	0.935	0.929	0.924	0.918	0.913	0.907	0.901	0.895	0.889	0.883	0.877	0.871	0.864	0.858

续表

$t, ^\circ\text{C}$ $p, 10^2\text{Pa}$	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1 014	1.050	1.046	1.041	1.037	1.032	1.028	1.024	1.019	1.014	1.010	1.005	1.001	0.996	0.991	0.987	0.982	0.977	0.972
1 016	1.052	1.048	1.043	1.039	1.035	1.030	1.026	1.021	1.017	1.012	1.007	1.003	0.998	0.993	0.989	0.984	0.979	0.974
1 018	1.054	1.050	1.046	1.041	1.037	1.032	1.028	1.023	1.019	1.014	1.009	1.005	1.000	0.995	0.991	0.986	0.981	0.976
1 020	1.057	1.052	1.048	1.043	1.039	1.034	1.030	1.025	1.021	1.016	1.011	1.007	1.002	0.997	0.993	0.988	0.983	0.978
1 022	1.059	1.054	1.050	1.045	1.041	1.036	1.032	1.027	1.023	1.018	1.013	1.009	1.004	0.999	0.995	0.990	0.985	0.980
1 024	1.061	1.056	1.052	1.047	1.043	1.038	1.034	1.029	1.025	1.020	1.015	1.011	1.006	1.001	0.997	0.992	0.987	0.982
1 026	1.063	1.058	1.054	1.049	1.045	1.040	1.036	1.031	1.027	1.022	1.018	1.013	1.008	1.003	0.999	0.994	0.989	0.984
1 028	1.065	1.060	1.056	1.051	1.047	1.042	1.038	1.033	1.029	1.024	1.020	1.015	1.010	1.005	1.001	0.996	0.991	0.986
1 030	1.067	1.062	1.058	1.054	1.049	1.044	1.040	1.035	1.031	1.026	1.022	1.017	1.012	1.007	1.003	0.998	0.993	0.988
1 032	1.069	1.065	1.060	1.056	1.051	1.046	1.042	1.037	1.033	1.028	1.024	1.019	1.014	1.009	1.005	1.000	0.995	0.990
1 034	1.071	1.067	1.062	1.058	1.053	1.049	1.044	1.039	1.035	1.030	1.026	1.021	1.016	1.011	1.007	1.002	0.997	0.992
1 036	1.073	1.069	1.064	1.060	1.055	1.051	1.046	1.041	1.037	1.032	1.028	1.023	1.018	1.013	1.009	1.004	0.999	0.994
1 038	1.075	1.071	1.066	1.062	1.057	1.053	1.048	1.044	1.039	1.034	1.030	1.025	1.020	1.015	1.011	1.006	1.001	0.996
1 040	1.077	1.073	1.068	1.064	1.059	1.055	1.050	1.046	1.041	1.036	1.032	1.027	1.022	1.017	1.013	1.008	1.003	0.998

表 A2 气体容量法测定碳的温度、气压修正系数表

$t, ^\circ\text{C}$ $p, 10^2\text{Pa}$	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
750	0.773	0.770	0.767	0.763	0.760	0.757	0.753	0.750	0.747	0.743	0.740	0.737	0.733	0.730	0.726	0.723	0.719	0.716
752	0.775	0.772	0.769	0.765	0.762	0.759	0.756	0.752	0.749	0.745	0.742	0.739	0.735	0.732	0.728	0.725	0.721	0.717
754	0.777	0.774	0.771	0.768	0.764	0.761	0.758	0.754	0.751	0.747	0.744	0.741	0.737	0.734	0.730	0.727	0.723	0.719
756	0.779	0.776	0.773	0.770	0.766	0.763	0.760	0.756	0.753	0.749	0.746	0.743	0.739	0.736	0.732	0.729	0.725	0.721
758	0.782	0.778	0.775	0.772	0.768	0.765	0.762	0.758	0.755	0.751	0.748	0.745	0.741	0.738	0.734	0.731	0.727	0.723
760	0.784	0.780	0.777	0.774	0.770	0.767	0.764	0.760	0.757	0.754	0.750	0.747	0.743	0.740	0.736	0.733	0.729	0.725

A1

23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
0.967	0.962	0.957	0.952	0.947	0.942	0.937	0.931	0.926	0.920	0.915	0.909	0.903	0.897	0.891	0.885	0.879	0.872	0.866	0.859
0.969	0.964	0.959	0.954	0.949	0.944	0.939	0.933	0.928	0.922	0.917	0.911	0.905	0.899	0.893	0.887	0.881	0.874	0.868	0.861
0.971	0.966	0.961	0.956	0.951	0.946	0.941	0.935	0.930	0.924	0.918	0.913	0.907	0.901	0.895	0.889	0.883	0.876	0.870	0.863
0.973	0.968	0.963	0.958	0.953	0.948	0.942	0.937	0.932	0.926	0.920	0.915	0.909	0.903	0.897	0.891	0.884	0.878	0.872	0.865
0.975	0.970	0.965	0.960	0.955	0.950	0.944	0.939	0.934	0.928	0.922	0.916	0.911	0.905	0.899	0.893	0.886	0.880	0.873	0.867
0.977	0.972	0.967	0.962	0.957	0.952	0.946	0.941	0.935	0.930	0.924	0.918	0.913	0.907	0.901	0.894	0.888	0.882	0.875	0.869
0.979	0.974	0.969	0.964	0.959	0.954	0.948	0.943	0.937	0.932	0.926	0.920	0.914	0.909	0.902	0.896	0.890	0.884	0.877	0.870
0.981	0.976	0.971	0.966	0.961	0.956	0.950	0.945	0.939	0.934	0.928	0.922	0.916	0.910	0.904	0.898	0.892	0.886	0.879	0.872
0.983	0.978	0.973	0.968	0.963	0.957	0.952	0.947	0.941	0.936	0.930	0.924	0.918	0.912	0.906	0.900	0.894	0.887	0.881	0.874
0.985	0.980	0.975	0.970	0.965	0.959	0.954	0.949	0.943	0.938	0.932	0.926	0.920	0.914	0.908	0.902	0.896	0.889	0.883	0.876
0.987	0.982	0.977	0.972	0.967	0.961	0.956	0.950	0.945	0.939	0.934	0.928	0.922	0.916	0.910	0.904	0.898	0.891	0.884	0.878
0.989	0.984	0.979	0.974	0.968	0.963	0.958	0.952	0.947	0.941	0.936	0.930	0.924	0.918	0.912	0.906	0.899	0.893	0.886	0.880
0.991	0.986	0.981	0.976	0.970	0.965	0.960	0.954	0.949	0.943	0.938	0.932	0.926	0.920	0.914	0.908	0.901	0.895	0.888	0.882
0.993	0.988	0.983	0.978	0.972	0.967	0.962	0.956	0.951	0.945	0.939	0.934	0.928	0.922	0.916	0.909	0.903	0.897	0.890	0.883

(本表用氯化钠酸性溶液作封闭液)

23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
0.712	0.708	0.705	0.701	0.697	0.693	0.689	0.685	0.681	0.677	0.673	0.669	0.665	0.660	0.656	0.651	0.647	0.642	0.637	0.631
0.714	0.710	0.706	0.703	0.699	0.695	0.691	0.687	0.683	0.679	0.675	0.671	0.667	0.662	0.658	0.653	0.649	0.643	0.638	0.633
0.716	0.712	0.708	0.705	0.701	0.697	0.693	0.689	0.685	0.681	0.677	0.673	0.668	0.664	0.660	0.655	0.651	0.645	0.640	0.635
0.718	0.714	0.710	0.707	0.703	0.699	0.695	0.691	0.687	0.683	0.679	0.674	0.670	0.666	0.662	0.657	0.652	0.647	0.642	0.637
0.720	0.716	0.712	0.709	0.705	0.701	0.697	0.693	0.689	0.685	0.680	0.676	0.672	0.668	0.663	0.659	0.654	0.649	0.644	0.639
0.722	0.718	0.714	0.710	0.707	0.703	0.699	0.695	0.691	0.687	0.682	0.678	0.674	0.670	0.665	0.661	0.656	0.651	0.646	0.640

续表

$t, ^\circ\text{C}$ $p, 10^2\text{Pa}$	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
762	0.7860	0.7820	0.7790	0.7760	0.7720	0.7690	0.7660	0.7620	0.7590	0.7560	0.7520	0.7490	0.7450	0.7420	0.7380	0.7350	0.7310	0.727
764	0.7880	0.7840	0.7810	0.7780	0.7740	0.7710	0.7680	0.7640	0.7610	0.7580	0.7540	0.7510	0.7470	0.7440	0.7400	0.7370	0.7330	0.729
766	0.7900	0.7860	0.7830	0.7800	0.7760	0.7730	0.7700	0.7660	0.7630	0.7600	0.7560	0.7530	0.7490	0.7460	0.7420	0.7390	0.7350	0.731
768	0.7920	0.7880	0.7850	0.7820	0.7790	0.7750	0.7720	0.7680	0.7650	0.7620	0.7580	0.7550	0.7510	0.7480	0.7440	0.7410	0.7370	0.733
770	0.7940	0.7910	0.7870	0.7840	0.7810	0.7770	0.7740	0.7710	0.7670	0.7640	0.7600	0.7570	0.7530	0.7500	0.7460	0.7430	0.7390	0.735
772	0.7960	0.7930	0.7890	0.7860	0.7830	0.7790	0.7760	0.7730	0.7690	0.7660	0.7620	0.7590	0.7550	0.7520	0.7480	0.7440	0.7410	0.737
774	0.7980	0.7950	0.7910	0.7880	0.7850	0.7810	0.7780	0.7750	0.7710	0.7680	0.7640	0.7610	0.7570	0.7540	0.7500	0.7460	0.7430	0.739
776	0.8000	0.7970	0.7930	0.7900	0.7870	0.7830	0.7800	0.7770	0.7730	0.7700	0.7660	0.7630	0.7590	0.7560	0.7520	0.7480	0.7450	0.741
778	0.8020	0.7990	0.7960	0.7920	0.7890	0.7850	0.7820	0.7790	0.7750	0.7720	0.7680	0.7650	0.7610	0.7580	0.7540	0.7500	0.7470	0.743
780	0.8050	0.8010	0.7980	0.7940	0.7910	0.7880	0.7840	0.7810	0.7770	0.7740	0.7700	0.7670	0.7630	0.7600	0.7560	0.7520	0.7490	0.745
782	0.8070	0.8030	0.8000	0.7960	0.7930	0.7900	0.7860	0.7830	0.7790	0.7760	0.7720	0.7690	0.7650	0.7620	0.7580	0.7540	0.7510	0.747
784	0.8090	0.8050	0.8020	0.7980	0.7950	0.7920	0.7880	0.7850	0.7810	0.7780	0.7740	0.7710	0.7670	0.7640	0.7600	0.7560	0.7530	0.749
786	0.8110	0.8070	0.8040	0.8000	0.7970	0.7940	0.7900	0.7870	0.7830	0.7800	0.7760	0.7730	0.7690	0.7650	0.7620	0.7580	0.7550	0.751
788	0.8130	0.8090	0.8060	0.8020	0.7990	0.7960	0.7920	0.7890	0.7850	0.7820	0.7780	0.7750	0.7710	0.7670	0.7640	0.7600	0.7570	0.753
790	0.8150	0.8110	0.8080	0.8050	0.8010	0.7980	0.7940	0.7910	0.7870	0.7840	0.7800	0.7770	0.7730	0.7690	0.7660	0.7620	0.7580	0.755
792	0.8170	0.8130	0.8100	0.8070	0.8030	0.8000	0.7960	0.7930	0.7890	0.7860	0.7820	0.7790	0.7750	0.7710	0.7680	0.7640	0.7600	0.757
794	0.8190	0.8150	0.8120	0.8090	0.8050	0.8020	0.7980	0.7950	0.7910	0.7880	0.7840	0.7810	0.7770	0.7730	0.7700	0.7660	0.7620	0.759
796	0.8210	0.8180	0.8140	0.8110	0.8070	0.8040	0.8000	0.7970	0.7930	0.7900	0.7860	0.7830	0.7790	0.7750	0.7720	0.7680	0.7640	0.761
798	0.8230	0.8200	0.8160	0.8130	0.8090	0.8060	0.8020	0.7990	0.7950	0.7920	0.7880	0.7850	0.7810	0.7770	0.7740	0.7700	0.7660	0.763
800	0.8250	0.8220	0.8180	0.8150	0.8110	0.8080	0.8040	0.8010	0.7970	0.7940	0.7900	0.7870	0.7830	0.7790	0.7760	0.7720	0.7680	0.765
802	0.8270	0.8240	0.8200	0.8170	0.8130	0.8100	0.8060	0.8030	0.7990	0.7960	0.7920	0.7890	0.7850	0.7810	0.7780	0.7740	0.7700	0.766
804	0.8290	0.8260	0.8220	0.8190	0.8150	0.8120	0.8080	0.8050	0.8010	0.7980	0.7940	0.7910	0.7870	0.7830	0.7800	0.7760	0.7720	0.768

A2

23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
0.724	0.720	0.716	0.712	0.708	0.705	0.701	0.697	0.693	0.689	0.684	0.680	0.676	0.672	0.667	0.663	0.658	0.653	0.648	0.642
0.726	0.722	0.718	0.714	0.710	0.707	0.702	0.699	0.695	0.690	0.686	0.682	0.678	0.673	0.669	0.664	0.660	0.655	0.649	0.644
0.728	0.724	0.720	0.716	0.712	0.708	0.704	0.700	0.697	0.692	0.688	0.684	0.680	0.675	0.671	0.666	0.662	0.656	0.651	0.646
0.730	0.726	0.722	0.718	0.714	0.710	0.706	0.702	0.698	0.694	0.690	0.686	0.682	0.677	0.673	0.668	0.663	0.658	0.653	0.648
0.731	0.728	0.724	0.720	0.716	0.712	0.708	0.704	0.700	0.696	0.692	0.688	0.683	0.679	0.675	0.670	0.665	0.660	0.655	0.650
0.733	0.730	0.726	0.722	0.718	0.714	0.710	0.706	0.702	0.698	0.694	0.689	0.685	0.681	0.677	0.672	0.667	0.662	0.657	0.651
0.735	0.732	0.728	0.724	0.720	0.716	0.712	0.708	0.704	0.700	0.696	0.691	0.687	0.683	0.678	0.674	0.669	0.664	0.659	0.653
0.737	0.734	0.730	0.726	0.722	0.718	0.714	0.710	0.706	0.702	0.697	0.693	0.689	0.685	0.680	0.676	0.671	0.666	0.660	0.655
0.739	0.736	0.732	0.728	0.724	0.720	0.716	0.712	0.708	0.704	0.699	0.695	0.691	0.687	0.682	0.678	0.673	0.667	0.662	0.657
0.741	0.737	0.734	0.730	0.726	0.722	0.718	0.714	0.710	0.706	0.701	0.697	0.693	0.688	0.684	0.679	0.675	0.669	0.664	0.659
0.743	0.739	0.736	0.732	0.728	0.724	0.720	0.716	0.712	0.708	0.703	0.699	0.695	0.690	0.686	0.681	0.676	0.671	0.666	0.661
0.745	0.741	0.738	0.734	0.730	0.726	0.722	0.718	0.714	0.709	0.705	0.701	0.697	0.692	0.688	0.683	0.678	0.673	0.668	0.662
0.747	0.743	0.739	0.736	0.732	0.728	0.724	0.720	0.716	0.711	0.707	0.703	0.698	0.694	0.690	0.685	0.680	0.675	0.670	0.664
0.749	0.745	0.741	0.738	0.734	0.730	0.725	0.721	0.717	0.713	0.709	0.705	0.700	0.696	0.691	0.687	0.682	0.677	0.672	0.666
0.751	0.747	0.743	0.740	0.735	0.732	0.727	0.723	0.719	0.715	0.711	0.706	0.702	0.698	0.693	0.689	0.684	0.679	0.673	0.668
0.753	0.749	0.745	0.741	0.737	0.733	0.729	0.725	0.721	0.717	0.713	0.708	0.704	0.700	0.695	0.691	0.686	0.680	0.675	0.670
0.755	0.751	0.747	0.743	0.739	0.735	0.731	0.727	0.723	0.719	0.714	0.710	0.706	0.702	0.697	0.692	0.688	0.682	0.677	0.672
0.757	0.753	0.749	0.745	0.741	0.737	0.733	0.729	0.725	0.721	0.716	0.712	0.708	0.703	0.699	0.694	0.689	0.684	0.679	0.674
0.759	0.755	0.751	0.747	0.743	0.739	0.735	0.731	0.727	0.723	0.718	0.714	0.710	0.705	0.701	0.696	0.691	0.686	0.681	0.675
0.761	0.757	0.753	0.749	0.745	0.741	0.737	0.733	0.729	0.725	0.720	0.716	0.712	0.707	0.703	0.698	0.693	0.688	0.683	0.677
0.763	0.759	0.755	0.751	0.747	0.743	0.739	0.735	0.731	0.726	0.722	0.718	0.713	0.709	0.705	0.700	0.695	0.690	0.684	0.679
0.765	0.761	0.757	0.753	0.749	0.745	0.741	0.737	0.733	0.728	0.724	0.720	0.715	0.711	0.706	0.702	0.697	0.691	0.686	0.681

续表

$t, ^\circ\text{C}$ $p, 10^2\text{Pa}$	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
806	0.8320	0.8280	0.8240	0.8210	0.8170	0.8140	0.8110	0.8070	0.8030	0.8000	0.7960	0.7930	0.7890	0.7850	0.7820	0.7780	0.7740	0.770
808	0.8340	0.8300	0.8270	0.8230	0.8200	0.8160	0.8130	0.8090	0.8050	0.8020	0.7980	0.7950	0.7910	0.7870	0.7840	0.7800	0.7760	0.772
810	0.8360	0.8320	0.8290	0.8250	0.8220	0.8180	0.8150	0.8110	0.8070	0.8040	0.8000	0.7970	0.7930	0.7890	0.7860	0.7820	0.7780	0.774
812	0.8380	0.8340	0.8310	0.8270	0.8240	0.8200	0.8170	0.8130	0.8090	0.8060	0.8020	0.7990	0.7950	0.7910	0.7880	0.7840	0.7800	0.776
814	0.8400	0.8360	0.8330	0.8290	0.8260	0.8220	0.8190	0.8150	0.8120	0.8080	0.8040	0.8010	0.7970	0.7930	0.7900	0.7860	0.7820	0.778
816	0.8420	0.8380	0.8350	0.8310	0.8280	0.8240	0.8210	0.8170	0.8140	0.8100	0.8060	0.8030	0.7990	0.7950	0.7920	0.7880	0.7840	0.780
818	0.8440	0.8400	0.8370	0.8330	0.8300	0.8260	0.8230	0.8190	0.8160	0.8120	0.8080	0.8050	0.8010	0.7970	0.7940	0.7900	0.7860	0.782
820	0.8460	0.8420	0.8390	0.8350	0.8320	0.8280	0.8250	0.8210	0.8180	0.8140	0.8100	0.8070	0.8030	0.7990	0.7960	0.7920	0.7880	0.784
822	0.8480	0.8450	0.8410	0.8370	0.8340	0.8300	0.8270	0.8230	0.8200	0.8160	0.8120	0.8090	0.8050	0.8010	0.7980	0.7940	0.7900	0.786
824	0.8500	0.8470	0.8430	0.8400	0.8360	0.8320	0.8290	0.8250	0.8220	0.8180	0.8140	0.8110	0.8070	0.8030	0.8000	0.7960	0.7920	0.788
826	0.8520	0.8490	0.8450	0.8420	0.8380	0.8350	0.8310	0.8270	0.8240	0.8200	0.8160	0.8130	0.8090	0.8050	0.8020	0.7980	0.7940	0.790
828	0.8540	0.8510	0.8470	0.8440	0.8400	0.8370	0.8330	0.8290	0.8260	0.8220	0.8180	0.8150	0.8110	0.8070	0.8040	0.8000	0.7960	0.792
830	0.8560	0.8530	0.8490	0.8460	0.8420	0.8390	0.8350	0.8310	0.8280	0.8240	0.8200	0.8170	0.8130	0.8090	0.8060	0.8020	0.7980	0.794
832	0.8590	0.8550	0.8510	0.8480	0.8440	0.8410	0.8370	0.8330	0.8300	0.8260	0.8220	0.8190	0.8150	0.8110	0.8080	0.8040	0.8000	0.796
834	0.8610	0.8570	0.8530	0.8500	0.8460	0.8430	0.8390	0.8350	0.8320	0.8280	0.8240	0.8210	0.8170	0.8130	0.8100	0.8060	0.8020	0.798
836	0.8630	0.8590	0.8550	0.8520	0.8480	0.8450	0.8410	0.8370	0.8340	0.8300	0.8260	0.8230	0.8190	0.8150	0.8110	0.8080	0.8040	0.800
838	0.8650	0.8610	0.8580	0.8540	0.8500	0.8470	0.8430	0.8400	0.8360	0.8320	0.8280	0.8250	0.8210	0.8170	0.8130	0.8100	0.8060	0.802
840	0.8670	0.8630	0.8600	0.8560	0.8520	0.8490	0.8450	0.8420	0.8380	0.8340	0.8300	0.8270	0.8230	0.8190	0.8150	0.8120	0.8080	0.804
842	0.8690	0.8650	0.8620	0.8580	0.8540	0.8510	0.8470	0.8440	0.8400	0.8360	0.8320	0.8290	0.8250	0.8210	0.8170	0.8140	0.8100	0.806
844	0.8710	0.8670	0.8640	0.8600	0.8560	0.8530	0.8490	0.8460	0.8420	0.8380	0.8340	0.8310	0.8270	0.8230	0.8190	0.8160	0.8120	0.808
846	0.8730	0.8690	0.8660	0.8620	0.8590	0.8550	0.8510	0.8480	0.8440	0.8400	0.8360	0.8330	0.8290	0.8250	0.8210	0.8180	0.8140	0.810
848	0.8750	0.8710	0.8680	0.8640	0.8610	0.8570	0.8530	0.8500	0.8460	0.8420	0.8380	0.8350	0.8310	0.8270	0.8230	0.8190	0.8160	0.812
850	0.8770	0.8740	0.8700	0.8660	0.8630	0.8590	0.8550	0.8520	0.8480	0.8440	0.8400	0.8370	0.8330	0.8290	0.8250	0.8210	0.8170	0.814

A2

23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
0.767	0.763	0.759	0.755	0.751	0.747	0.743	0.739	0.735	0.730	0.726	0.721	0.717	0.713	0.708	0.704	0.699	0.693	0.688	0.683
0.769	0.765	0.761	0.757	0.753	0.749	0.745	0.741	0.736	0.732	0.728	0.723	0.719	0.715	0.710	0.705	0.701	0.695	0.690	0.685
0.771	0.767	0.763	0.759	0.755	0.751	0.747	0.742	0.738	0.734	0.730	0.725	0.721	0.717	0.712	0.707	0.702	0.697	0.692	0.686
0.772	0.769	0.765	0.761	0.757	0.753	0.748	0.744	0.740	0.736	0.731	0.727	0.723	0.718	0.714	0.709	0.704	0.699	0.694	0.688
0.774	0.770	0.767	0.763	0.759	0.755	0.750	0.746	0.742	0.738	0.733	0.729	0.725	0.720	0.716	0.711	0.706	0.701	0.695	0.690
0.776	0.772	0.769	0.765	0.761	0.757	0.752	0.748	0.744	0.740	0.735	0.731	0.727	0.722	0.718	0.713	0.708	0.703	0.697	0.692
0.778	0.774	0.771	0.767	0.762	0.758	0.754	0.750	0.746	0.742	0.737	0.733	0.729	0.724	0.719	0.715	0.710	0.704	0.699	0.694
0.780	0.776	0.772	0.769	0.764	0.760	0.756	0.752	0.748	0.744	0.739	0.735	0.730	0.726	0.721	0.717	0.712	0.706	0.701	0.696
0.782	0.778	0.774	0.770	0.766	0.762	0.758	0.754	0.750	0.745	0.741	0.737	0.732	0.728	0.723	0.718	0.714	0.708	0.703	0.697
0.784	0.780	0.776	0.772	0.768	0.764	0.760	0.756	0.752	0.747	0.743	0.738	0.734	0.730	0.725	0.720	0.715	0.710	0.705	0.699
0.786	0.782	0.778	0.774	0.770	0.766	0.762	0.758	0.754	0.749	0.745	0.740	0.736	0.731	0.727	0.722	0.717	0.712	0.707	0.701
0.788	0.784	0.780	0.776	0.772	0.768	0.764	0.760	0.756	0.751	0.747	0.742	0.738	0.733	0.729	0.724	0.719	0.714	0.708	0.703
0.790	0.786	0.782	0.778	0.774	0.770	0.766	0.762	0.757	0.753	0.748	0.744	0.740	0.735	0.731	0.726	0.721	0.716	0.710	0.705
0.792	0.788	0.784	0.780	0.776	0.772	0.768	0.763	0.759	0.755	0.750	0.746	0.742	0.737	0.732	0.728	0.723	0.717	0.712	0.707
0.794	0.790	0.786	0.782	0.778	0.774	0.770	0.765	0.761	0.757	0.752	0.748	0.744	0.739	0.734	0.730	0.725	0.719	0.714	0.708
0.796	0.792	0.788	0.784	0.780	0.776	0.771	0.767	0.763	0.759	0.754	0.750	0.745	0.741	0.736	0.731	0.727	0.721	0.716	0.710
0.798	0.794	0.790	0.786	0.782	0.778	0.773	0.769	0.765	0.761	0.756	0.752	0.747	0.743	0.738	0.733	0.728	0.723	0.718	0.712
0.800	0.796	0.792	0.788	0.784	0.780	0.775	0.771	0.767	0.763	0.758	0.753	0.749	0.745	0.740	0.735	0.730	0.725	0.719	0.714
0.802	0.798	0.794	0.790	0.786	0.781	0.777	0.773	0.769	0.764	0.760	0.755	0.751	0.746	0.742	0.737	0.732	0.727	0.721	0.716
0.804	0.800	0.796	0.792	0.788	0.783	0.779	0.775	0.771	0.766	0.762	0.757	0.753	0.748	0.744	0.739	0.734	0.728	0.723	0.718
0.806	0.802	0.798	0.794	0.789	0.785	0.781	0.777	0.773	0.768	0.764	0.759	0.755	0.750	0.746	0.741	0.736	0.730	0.725	0.719
0.808	0.804	0.800	0.796	0.791	0.787	0.783	0.779	0.775	0.770	0.766	0.761	0.757	0.752	0.747	0.743	0.738	0.732	0.727	0.721
0.810	0.806	0.802	0.798	0.793	0.789	0.785	0.781	0.776	0.772	0.767	0.763	0.759	0.754	0.749	0.744	0.739	0.734	0.729	0.723

续表

$t, ^\circ\text{C}$ $p, 10^2\text{Pa}$	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
852	0.8790	0.8760	0.8720	0.8680	0.8650	0.8610	0.8570	0.8540	0.8500	0.8460	0.8420	0.8390	0.8350	0.8310	0.8270	0.8230	0.8190	0.815
854	0.8810	0.8780	0.8740	0.8700	0.8670	0.8630	0.8590	0.8560	0.8520	0.8480	0.8440	0.8410	0.8370	0.8330	0.8290	0.8250	0.8210	0.817
856	0.8840	0.8800	0.8760	0.8720	0.8690	0.8650	0.8610	0.8580	0.8540	0.8500	0.8460	0.8430	0.8390	0.8350	0.8310	0.8270	0.8230	0.819
858	0.8860	0.8820	0.8780	0.8750	0.8710	0.8670	0.8630	0.8600	0.8560	0.8520	0.8480	0.8450	0.8410	0.8370	0.8330	0.8290	0.8250	0.821
860	0.8880	0.8840	0.8800	0.8770	0.8730	0.8690	0.8650	0.8620	0.8580	0.8540	0.8500	0.8470	0.8430	0.8390	0.8350	0.8310	0.8270	0.823
862	0.8900	0.8860	0.8820	0.8790	0.8750	0.8710	0.8680	0.8640	0.8600	0.8560	0.8520	0.8490	0.8450	0.8410	0.8370	0.8330	0.8290	0.825
864	0.8920	0.8880	0.8840	0.8810	0.8770	0.8730	0.8700	0.8660	0.8620	0.8580	0.8540	0.8510	0.8470	0.8430	0.8390	0.8350	0.8310	0.827
866	0.8940	0.8900	0.8860	0.8830	0.8790	0.8750	0.8720	0.8680	0.8640	0.8600	0.8560	0.8530	0.8490	0.8450	0.8410	0.8370	0.8330	0.829
868	0.8960	0.8920	0.8880	0.8850	0.8810	0.8770	0.8740	0.8700	0.8660	0.8620	0.8580	0.8550	0.8510	0.8470	0.8430	0.8390	0.8350	0.831
870	0.8980	0.8940	0.8910	0.8870	0.8830	0.8790	0.8760	0.8720	0.8680	0.8640	0.8600	0.8570	0.8530	0.8490	0.8450	0.8410	0.8370	0.833
872	0.9000	0.8960	0.8930	0.8890	0.8850	0.8820	0.8780	0.8740	0.8700	0.8660	0.8620	0.8590	0.8550	0.8510	0.8470	0.8430	0.8390	0.835
874	0.9020	0.8980	0.8950	0.8910	0.8870	0.8840	0.8800	0.8760	0.8720	0.8680	0.8650	0.8610	0.8570	0.8530	0.8490	0.8450	0.8410	0.837
876	0.9040	0.9000	0.8970	0.8930	0.8890	0.8860	0.8820	0.8780	0.8740	0.8700	0.8670	0.8630	0.8590	0.8550	0.8510	0.8470	0.8430	0.839
878	0.9060	0.9030	0.8990	0.8950	0.8910	0.8880	0.8840	0.8800	0.8760	0.8720	0.8690	0.8650	0.8610	0.8570	0.8530	0.8490	0.8450	0.841
880	0.9080	0.9050	0.9010	0.8970	0.8930	0.8900	0.8860	0.8820	0.8780	0.8740	0.8710	0.8670	0.8630	0.8590	0.8550	0.8510	0.8470	0.843
882	0.9110	0.9070	0.9030	0.8990	0.8950	0.8920	0.8880	0.8840	0.8800	0.8760	0.8730	0.8690	0.8650	0.8610	0.8570	0.8530	0.8490	0.845
884	0.9130	0.9090	0.9050	0.9010	0.8970	0.8940	0.8900	0.8860	0.8820	0.8780	0.8750	0.8710	0.8670	0.8630	0.8590	0.8550	0.8510	0.847
886	0.9150	0.9110	0.9070	0.9030	0.9000	0.8960	0.8920	0.8880	0.8840	0.8800	0.8770	0.8730	0.8690	0.8650	0.8610	0.8570	0.8530	0.849
888	0.9170	0.9130	0.9090	0.9050	0.9020	0.8980	0.8940	0.8900	0.8860	0.8820	0.8790	0.8750	0.8710	0.8670	0.8630	0.8590	0.8550	0.851
890	0.9190	0.9150	0.9110	0.9070	0.9040	0.9000	0.8960	0.8920	0.8880	0.8840	0.8810	0.8770	0.8730	0.8690	0.8650	0.8610	0.8570	0.853
892	0.9210	0.9170	0.9130	0.9090	0.9060	0.9020	0.8980	0.8940	0.8900	0.8860	0.8830	0.8790	0.8750	0.8710	0.8670	0.8630	0.8590	0.855
894	0.9230	0.9190	0.9150	0.9120	0.9080	0.9040	0.9000	0.8960	0.8920	0.8880	0.8850	0.8810	0.8770	0.8730	0.8690	0.8650	0.8610	0.857

A2

23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
0.812	0.808	0.804	0.799	0.795	0.791	0.787	0.783	0.778	0.774	0.769	0.765	0.760	0.756	0.751	0.746	0.741	0.736	0.730	0.725
0.814	0.810	0.805	0.801	0.797	0.793	0.789	0.784	0.780	0.776	0.771	0.767	0.762	0.758	0.753	0.748	0.743	0.738	0.732	0.727
0.815	0.811	0.807	0.803	0.799	0.795	0.791	0.786	0.782	0.778	0.773	0.769	0.764	0.760	0.755	0.750	0.745	0.740	0.734	0.729
0.817	0.813	0.809	0.805	0.801	0.797	0.792	0.788	0.784	0.780	0.775	0.770	0.766	0.761	0.757	0.752	0.747	0.741	0.736	0.730
0.819	0.815	0.811	0.807	0.803	0.799	0.794	0.790	0.786	0.781	0.777	0.772	0.768	0.763	0.759	0.754	0.749	0.743	0.738	0.732
0.821	0.817	0.813	0.809	0.805	0.801	0.796	0.792	0.788	0.783	0.779	0.774	0.770	0.765	0.760	0.756	0.751	0.745	0.740	0.734
0.823	0.819	0.815	0.811	0.807	0.803	0.798	0.794	0.790	0.785	0.781	0.776	0.772	0.767	0.762	0.757	0.752	0.747	0.741	0.736
0.825	0.821	0.817	0.813	0.809	0.805	0.800	0.796	0.792	0.787	0.783	0.778	0.774	0.769	0.764	0.759	0.754	0.749	0.743	0.738
0.827	0.823	0.819	0.815	0.811	0.806	0.802	0.798	0.794	0.789	0.784	0.780	0.775	0.771	0.766	0.761	0.756	0.751	0.745	0.740
0.829	0.825	0.821	0.817	0.813	0.808	0.804	0.800	0.795	0.791	0.786	0.782	0.777	0.773	0.768	0.763	0.758	0.752	0.747	0.741
0.831	0.827	0.823	0.819	0.815	0.810	0.806	0.802	0.797	0.793	0.788	0.784	0.779	0.775	0.770	0.765	0.760	0.754	0.749	0.743
0.833	0.829	0.825	0.821	0.816	0.812	0.808	0.804	0.799	0.795	0.790	0.786	0.781	0.776	0.772	0.767	0.762	0.756	0.751	0.745
0.835	0.831	0.827	0.823	0.818	0.814	0.810	0.805	0.801	0.797	0.792	0.787	0.783	0.778	0.774	0.769	0.764	0.758	0.753	0.747
0.837	0.833	0.829	0.825	0.820	0.816	0.812	0.807	0.803	0.799	0.794	0.789	0.785	0.780	0.775	0.770	0.765	0.760	0.754	0.749
0.839	0.835	0.831	0.827	0.822	0.818	0.814	0.809	0.805	0.800	0.796	0.791	0.787	0.782	0.777	0.772	0.767	0.762	0.756	0.751
0.841	0.837	0.833	0.828	0.824	0.820	0.815	0.811	0.807	0.802	0.798	0.793	0.789	0.784	0.779	0.774	0.769	0.764	0.758	0.752
0.843	0.839	0.835	0.830	0.826	0.822	0.817	0.813	0.809	0.804	0.800	0.795	0.790	0.786	0.781	0.776	0.771	0.765	0.760	0.754
0.845	0.841	0.836	0.832	0.828	0.824	0.819	0.815	0.811	0.806	0.801	0.797	0.792	0.788	0.783	0.778	0.773	0.767	0.762	0.756
0.847	0.843	0.838	0.834	0.830	0.826	0.821	0.817	0.813	0.808	0.803	0.799	0.794	0.790	0.785	0.780	0.775	0.769	0.764	0.758
0.849	0.845	0.840	0.836	0.832	0.828	0.823	0.819	0.814	0.810	0.805	0.801	0.796	0.791	0.787	0.782	0.777	0.771	0.765	0.760
0.851	0.847	0.842	0.838	0.834	0.830	0.825	0.821	0.816	0.812	0.807	0.802	0.798	0.793	0.788	0.784	0.778	0.773	0.767	0.762
0.853	0.848	0.844	0.840	0.836	0.831	0.827	0.823	0.818	0.814	0.809	0.804	0.800	0.795	0.790	0.785	0.780	0.775	0.769	0.763

续表

$t, ^\circ\text{C}$ $p, 10^2\text{Pa}$	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
896	0.9250	0.9210	0.9170	0.9140	0.9100	0.9060	0.9020	0.8980	0.8940	0.8910	0.8870	0.8830	0.8790	0.8750	0.8710	0.8670	0.8630	0.859
898	0.9270	0.9230	0.9190	0.9160	0.9120	0.9080	0.9040	0.9000	0.8960	0.8930	0.8890	0.8850	0.8810	0.8770	0.8730	0.8690	0.8650	0.861
900	0.9290	0.9250	0.9220	0.9180	0.9140	0.9100	0.9060	0.9020	0.8980	0.8950	0.8910	0.8870	0.8830	0.8790	0.8750	0.8710	0.8670	0.863
902	0.9310	0.9270	0.9240	0.9200	0.9160	0.9120	0.9080	0.9040	0.9000	0.8970	0.8930	0.8890	0.8850	0.8810	0.8770	0.8730	0.8690	0.865
904	0.9330	0.9290	0.9260	0.9220	0.9180	0.9140	0.9100	0.9060	0.9030	0.8990	0.8950	0.8910	0.8870	0.8830	0.8790	0.8750	0.8710	0.866
906	0.9360	0.9320	0.9280	0.9240	0.9200	0.9160	0.9120	0.9090	0.9050	0.9010	0.8970	0.8930	0.8890	0.8850	0.8810	0.8770	0.8730	0.868
908	0.9380	0.9340	0.9300	0.9260	0.9220	0.9180	0.9140	0.9110	0.9070	0.9030	0.8990	0.8950	0.8910	0.8870	0.8830	0.8790	0.8750	0.870
910	0.9400	0.9360	0.9320	0.9280	0.9240	0.9200	0.9160	0.9130	0.9090	0.9050	0.9010	0.8970	0.8930	0.8890	0.8850	0.8810	0.8760	0.872
912	0.9420	0.9380	0.9340	0.9300	0.9260	0.9220	0.9180	0.9150	0.9110	0.9070	0.9030	0.8990	0.8950	0.8910	0.8870	0.8830	0.8780	0.874
914	0.9440	0.9400	0.9360	0.9320	0.9280	0.9240	0.9200	0.9170	0.9130	0.9090	0.9050	0.9010	0.8970	0.8930	0.8890	0.8850	0.8800	0.876
916	0.9460	0.9420	0.9380	0.9340	0.9300	0.9260	0.9230	0.9190	0.9150	0.9110	0.9070	0.9030	0.8990	0.8950	0.8910	0.8870	0.8820	0.878
918	0.9480	0.9440	0.9400	0.9360	0.9320	0.9290	0.9250	0.9210	0.9170	0.9130	0.9090	0.9050	0.9010	0.8970	0.8930	0.8890	0.8840	0.880
920	0.9500	0.9460	0.9420	0.9380	0.9340	0.9310	0.9270	0.9230	0.9190	0.9150	0.9110	0.9070	0.9030	0.8990	0.8950	0.8910	0.8860	0.882
922	0.9520	0.9480	0.9440	0.9400	0.9360	0.9330	0.9290	0.9250	0.9210	0.9170	0.9130	0.9090	0.9050	0.9010	0.8970	0.8920	0.8880	0.884
924	0.9540	0.9500	0.9460	0.9420	0.9380	0.9350	0.9310	0.9270	0.9230	0.9190	0.9150	0.9110	0.9070	0.9030	0.8990	0.8940	0.8900	0.886
926	0.9560	0.9520	0.9480	0.9440	0.9410	0.9370	0.9330	0.9290	0.9250	0.9210	0.9170	0.9130	0.9090	0.9050	0.9010	0.8960	0.8920	0.888
928	0.9580	0.9540	0.9500	0.9470	0.9430	0.9390	0.9350	0.9310	0.9270	0.9230	0.9190	0.9150	0.9110	0.9070	0.9030	0.8980	0.8940	0.890
930	0.9600	0.9560	0.9530	0.9490	0.9450	0.9410	0.9370	0.9330	0.9290	0.9250	0.9210	0.9170	0.9130	0.9090	0.9050	0.9000	0.8960	0.892
932	0.9630	0.9590	0.9550	0.9510	0.9470	0.9430	0.9390	0.9350	0.9310	0.9270	0.9230	0.9190	0.9150	0.9110	0.9070	0.9020	0.8980	0.894
934	0.9650	0.9610	0.9570	0.9530	0.9490	0.9450	0.9410	0.9370	0.9330	0.9290	0.9250	0.9210	0.9170	0.9130	0.9090	0.9040	0.9000	0.896
936	0.9670	0.9630	0.9590	0.9550	0.9510	0.9470	0.9430	0.9390	0.9350	0.9310	0.9270	0.9230	0.9190	0.9150	0.9110	0.9060	0.9020	0.898
938	0.9690	0.9650	0.9610	0.9570	0.9530	0.9490	0.9450	0.9410	0.9370	0.9330	0.9290	0.9250	0.9210	0.9170	0.9120	0.9080	0.9040	0.900
940	0.9710	0.9670	0.9630	0.9590	0.9550	0.9510	0.9470	0.9430	0.9390	0.9350	0.9310	0.9270	0.9230	0.9190	0.9140	0.9100	0.9060	0.902

A2

23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
0.855	0.850	0.846	0.842	0.838	0.833	0.829	0.825	0.820	0.816	0.811	0.806	0.802	0.797	0.792	0.787	0.782	0.776	0.771	0.765
0.857	0.852	0.848	0.844	0.840	0.835	0.831	0.826	0.822	0.817	0.813	0.808	0.804	0.799	0.794	0.789	0.784	0.778	0.773	0.767
0.858	0.854	0.850	0.846	0.842	0.837	0.833	0.828	0.824	0.819	0.815	0.810	0.806	0.801	0.796	0.791	0.786	0.780	0.775	0.769
0.860	0.856	0.852	0.848	0.843	0.839	0.835	0.830	0.826	0.821	0.817	0.812	0.807	0.803	0.798	0.793	0.788	0.782	0.776	0.771
0.862	0.858	0.854	0.850	0.845	0.841	0.837	0.832	0.828	0.823	0.818	0.814	0.809	0.804	0.800	0.795	0.790	0.784	0.778	0.773
0.864	0.860	0.856	0.852	0.847	0.843	0.838	0.834	0.830	0.825	0.820	0.816	0.811	0.806	0.802	0.797	0.791	0.786	0.780	0.774
0.866	0.862	0.858	0.854	0.849	0.845	0.840	0.836	0.832	0.827	0.822	0.818	0.813	0.808	0.803	0.798	0.793	0.788	0.782	0.776
0.868	0.864	0.860	0.856	0.851	0.847	0.842	0.838	0.834	0.829	0.824	0.819	0.815	0.810	0.805	0.800	0.795	0.789	0.784	0.778
0.870	0.866	0.862	0.857	0.853	0.849	0.844	0.840	0.835	0.831	0.826	0.821	0.817	0.812	0.807	0.802	0.797	0.791	0.786	0.780
0.872	0.868	0.864	0.859	0.855	0.851	0.846	0.842	0.837	0.833	0.828	0.823	0.819	0.814	0.809	0.804	0.799	0.793	0.788	0.782
0.874	0.870	0.866	0.861	0.857	0.853	0.848	0.844	0.839	0.835	0.830	0.825	0.821	0.816	0.811	0.806	0.801	0.795	0.789	0.784
0.876	0.872	0.868	0.863	0.859	0.854	0.850	0.846	0.841	0.836	0.832	0.827	0.822	0.818	0.813	0.808	0.803	0.797	0.791	0.785
0.878	0.874	0.869	0.865	0.861	0.856	0.852	0.847	0.843	0.838	0.834	0.829	0.824	0.819	0.815	0.810	0.804	0.799	0.793	0.787
0.880	0.876	0.871	0.867	0.863	0.858	0.854	0.849	0.845	0.840	0.835	0.831	0.826	0.821	0.816	0.811	0.806	0.800	0.795	0.789
0.882	0.878	0.873	0.869	0.865	0.860	0.856	0.851	0.847	0.842	0.837	0.833	0.828	0.823	0.818	0.813	0.808	0.802	0.797	0.791
0.884	0.880	0.875	0.871	0.867	0.862	0.858	0.853	0.849	0.844	0.839	0.834	0.830	0.825	0.820	0.815	0.810	0.804	0.799	0.793
0.886	0.882	0.877	0.873	0.869	0.864	0.860	0.855	0.851	0.846	0.841	0.836	0.832	0.827	0.822	0.817	0.812	0.806	0.800	0.795
0.888	0.884	0.879	0.875	0.870	0.866	0.861	0.857	0.853	0.848	0.843	0.838	0.834	0.829	0.824	0.819	0.814	0.808	0.802	0.797
0.890	0.885	0.881	0.877	0.872	0.868	0.863	0.859	0.854	0.850	0.845	0.840	0.836	0.831	0.826	0.821	0.815	0.810	0.804	0.798
0.892	0.887	0.883	0.879	0.874	0.870	0.865	0.861	0.856	0.852	0.847	0.842	0.837	0.833	0.828	0.823	0.817	0.812	0.806	0.800
0.894	0.889	0.885	0.881	0.876	0.872	0.867	0.863	0.858	0.854	0.849	0.844	0.839	0.834	0.830	0.824	0.819	0.813	0.808	0.802
0.896	0.891	0.887	0.883	0.878	0.874	0.869	0.865	0.860	0.855	0.851	0.846	0.841	0.836	0.831	0.826	0.821	0.815	0.810	0.804
0.898	0.893	0.889	0.885	0.880	0.876	0.871	0.867	0.862	0.857	0.852	0.848	0.843	0.838	0.833	0.828	0.823	0.817	0.811	0.806

续表

$t, ^\circ\text{C}$ $p, 10^2\text{Pa}$	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
942	0.9730	0.9690	0.9650	0.9610	0.9570	0.9530	0.9490	0.9450	0.9410	0.9370	0.9330	0.9290	0.9250	0.9200	0.9160	0.9120	0.9080	0.904
944	0.9750	0.9710	0.9670	0.9630	0.9590	0.9550	0.9510	0.9470	0.9430	0.9390	0.9350	0.9310	0.9270	0.9220	0.9180	0.9140	0.9100	0.906
946	0.9770	0.9730	0.9690	0.9650	0.9610	0.9570	0.9530	0.9490	0.9450	0.9410	0.9370	0.9330	0.9290	0.9240	0.9200	0.9160	0.9120	0.908
948	0.9790	0.9750	0.9710	0.9670	0.9630	0.9590	0.9550	0.9510	0.9470	0.9430	0.9390	0.9350	0.9310	0.9260	0.9220	0.9180	0.9140	0.910
950	0.9810	0.9770	0.9730	0.9690	0.9650	0.9610	0.9570	0.9530	0.9490	0.9450	0.9410	0.9370	0.9330	0.9280	0.9240	0.9200	0.9160	0.912
952	0.9830	0.9790	0.9750	0.9710	0.9670	0.9630	0.9590	0.9550	0.9510	0.9470	0.9430	0.9390	0.9350	0.9300	0.9260	0.9220	0.9180	0.914
954	0.9850	0.9810	0.9770	0.9730	0.9690	0.9650	0.9610	0.9570	0.9530	0.9490	0.9450	0.9410	0.9370	0.9320	0.9280	0.9240	0.9200	0.915
956	0.9880	0.9830	0.9790	0.9750	0.9710	0.9670	0.9630	0.9590	0.9550	0.9510	0.9470	0.9430	0.9390	0.9340	0.9300	0.9260	0.9220	0.917
958	0.9900	0.9850	0.9810	0.9770	0.9730	0.9690	0.9650	0.9610	0.9570	0.9530	0.9490	0.9450	0.9410	0.9360	0.9320	0.9280	0.9240	0.919
960	0.9920	0.9880	0.9830	0.9790	0.9750	0.9710	0.9670	0.9630	0.9590	0.9550	0.9510	0.9470	0.9430	0.9380	0.9340	0.9300	0.9260	0.921
962	0.9940	0.9900	0.9860	0.9820	0.9770	0.9730	0.9690	0.9650	0.9610	0.9570	0.9530	0.9490	0.9450	0.9400	0.9360	0.9320	0.9280	0.923
964	0.9960	0.9920	0.9880	0.9840	0.9790	0.9760	0.9710	0.9670	0.9630	0.9590	0.9550	0.9510	0.9460	0.9420	0.9380	0.9340	0.9300	0.925
966	0.9980	0.9940	0.9900	0.9860	0.9820	0.9780	0.9730	0.9690	0.9650	0.9610	0.9570	0.9530	0.9480	0.9440	0.9400	0.9360	0.9320	0.927
968	1.0000	0.9960	0.9920	0.9880	0.9840	0.9800	0.9750	0.9710	0.9670	0.9630	0.9590	0.9550	0.9500	0.9460	0.9420	0.9380	0.9340	0.929
970	1.0020	0.9980	0.9940	0.9900	0.9860	0.9820	0.9770	0.9730	0.9690	0.9650	0.9610	0.9570	0.9520	0.9480	0.9440	0.9400	0.9360	0.931
972	1.0041	1.0000	0.9960	0.9920	0.9880	0.9840	0.9800	0.9750	0.9710	0.9670	0.9630	0.9590	0.9540	0.9500	0.9460	0.9420	0.9370	0.933
974	1.0061	1.0020	0.9980	0.9940	0.9900	0.9860	0.9820	0.9770	0.9730	0.9690	0.9650	0.9610	0.9560	0.9520	0.9480	0.9440	0.9390	0.935
976	1.0081	1.0041	1.0000	0.9960	0.9920	0.9880	0.9840	0.9800	0.9750	0.9710	0.9670	0.9630	0.9580	0.9540	0.9500	0.9460	0.9410	0.937
978	1.0101	1.0061	1.0020	0.9980	0.9940	0.9900	0.9860	0.9820	0.9770	0.9730	0.9690	0.9650	0.9600	0.9560	0.9520	0.9480	0.9430	0.939
980	1.0121	1.0081	1.0041	1.0000	0.9960	0.9920	0.9880	0.9840	0.9790	0.9750	0.9710	0.9670	0.9620	0.9580	0.9540	0.9500	0.9450	0.941
982	1.0151	1.0101	1.0061	1.0020	0.9980	0.9940	0.9900	0.9860	0.9810	0.9770	0.9730	0.9690	0.9640	0.9600	0.9560	0.9520	0.9470	0.943
984	1.0171	1.0121	1.0081	1.0041	1.0000	0.9960	0.9920	0.9880	0.9830	0.9790	0.9750	0.9710	0.9660	0.9620	0.9580	0.9540	0.9490	0.945

A2

23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
0.899	0.895	0.891	0.887	0.882	0.878	0.873	0.868	0.864	0.859	0.854	0.850	0.845	0.840	0.835	0.830	0.825	0.819	0.813	0.808
0.901	0.897	0.893	0.888	0.884	0.879	0.875	0.870	0.866	0.861	0.856	0.851	0.847	0.842	0.837	0.832	0.827	0.821	0.815	0.809
0.903	0.899	0.895	0.890	0.886	0.881	0.877	0.872	0.868	0.863	0.858	0.853	0.849	0.844	0.839	0.834	0.828	0.823	0.817	0.811
0.905	0.901	0.897	0.892	0.888	0.883	0.879	0.874	0.870	0.865	0.860	0.855	0.851	0.846	0.841	0.836	0.830	0.825	0.819	0.813
0.907	0.903	0.899	0.894	0.890	0.885	0.881	0.876	0.872	0.867	0.862	0.857	0.852	0.848	0.843	0.837	0.832	0.826	0.821	0.815
0.909	0.905	0.900	0.896	0.892	0.887	0.882	0.878	0.873	0.869	0.864	0.859	0.854	0.849	0.844	0.839	0.834	0.828	0.823	0.817
0.911	0.907	0.902	0.898	0.894	0.889	0.884	0.880	0.875	0.871	0.866	0.861	0.856	0.851	0.846	0.841	0.836	0.830	0.824	0.819
0.913	0.909	0.904	0.900	0.895	0.891	0.886	0.882	0.877	0.872	0.868	0.863	0.858	0.853	0.848	0.843	0.838	0.832	0.826	0.820
0.915	0.911	0.906	0.902	0.897	0.893	0.888	0.884	0.879	0.874	0.869	0.865	0.860	0.855	0.850	0.845	0.840	0.834	0.828	0.822
0.917	0.913	0.908	0.904	0.899	0.895	0.890	0.886	0.881	0.876	0.871	0.867	0.862	0.857	0.852	0.847	0.841	0.836	0.830	0.824
0.919	0.915	0.910	0.906	0.901	0.897	0.892	0.887	0.883	0.878	0.873	0.868	0.864	0.859	0.854	0.849	0.843	0.837	0.832	0.826
0.921	0.917	0.912	0.908	0.903	0.899	0.894	0.889	0.885	0.880	0.875	0.870	0.866	0.861	0.856	0.850	0.845	0.839	0.834	0.828
0.923	0.919	0.914	0.910	0.905	0.900	0.896	0.891	0.887	0.882	0.877	0.872	0.867	0.863	0.857	0.852	0.847	0.841	0.835	0.830
0.925	0.921	0.916	0.912	0.907	0.903	0.898	0.893	0.889	0.884	0.879	0.874	0.869	0.864	0.859	0.854	0.849	0.843	0.837	0.831
0.927	0.922	0.918	0.914	0.909	0.904	0.900	0.895	0.890	0.886	0.881	0.876	0.871	0.866	0.861	0.856	0.851	0.845	0.839	0.833
0.929	0.924	0.920	0.916	0.911	0.906	0.902	0.897	0.892	0.888	0.883	0.878	0.873	0.868	0.863	0.858	0.853	0.847	0.841	0.835
0.931	0.926	0.922	0.917	0.913	0.908	0.904	0.899	0.894	0.890	0.885	0.880	0.875	0.870	0.865	0.860	0.854	0.849	0.843	0.837
0.933	0.928	0.924	0.919	0.915	0.910	0.905	0.901	0.896	0.891	0.886	0.882	0.877	0.872	0.867	0.862	0.856	0.850	0.845	0.839
0.935	0.930	0.926	0.921	0.917	0.912	0.907	0.903	0.898	0.893	0.888	0.883	0.879	0.874	0.869	0.863	0.858	0.852	0.846	0.841
0.937	0.932	0.928	0.923	0.919	0.914	0.909	0.905	0.900	0.895	0.890	0.885	0.881	0.876	0.871	0.865	0.860	0.854	0.848	0.842
0.939	0.934	0.930	0.925	0.921	0.916	0.911	0.907	0.902	0.897	0.892	0.887	0.882	0.877	0.872	0.867	0.862	0.856	0.850	0.844
0.941	0.936	0.932	0.927	0.922	0.918	0.913	0.908	0.904	0.899	0.894	0.889	0.884	0.879	0.874	0.869	0.864	0.858	0.852	0.846

续表

$t, ^\circ\text{C}$ $p, 10^2\text{Pa}$	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
986	1.019	1.014	1.010	1.006	1.002	0.998	0.994	0.990	0.985	0.981	0.977	0.973	0.968	0.964	0.960	0.956	0.951	0.947
988	1.021	1.017	1.012	1.008	1.004	1.000	0.996	0.992	0.987	0.983	0.979	0.975	0.970	0.966	0.962	0.958	0.953	0.949
990	1.023	1.019	1.014	1.010	1.006	1.002	0.998	0.994	0.989	0.985	0.981	0.977	0.972	0.968	0.964	0.960	0.955	0.951
992	1.025	1.021	1.017	1.012	1.008	1.004	1.000	0.996	0.991	0.987	0.983	0.979	0.974	0.970	0.966	0.962	0.957	0.953
994	1.027	1.023	1.019	1.014	1.010	1.006	1.002	0.998	0.993	0.989	0.985	0.981	0.976	0.972	0.968	0.964	0.959	0.955
996	1.029	1.025	1.021	1.017	1.012	1.008	1.004	1.000	0.996	0.991	0.987	0.983	0.978	0.974	0.970	0.966	0.961	0.957
998	1.031	1.027	1.023	1.019	1.014	1.010	1.006	1.002	0.998	0.993	0.989	0.985	0.980	0.976	0.972	0.968	0.963	0.959
1 000	1.033	1.029	1.025	1.021	1.016	1.012	1.008	1.004	1.000	0.995	0.991	0.987	0.982	0.978	0.974	0.969	0.965	0.961
1 002	1.035	1.031	1.027	1.023	1.018	1.014	1.010	1.006	1.002	0.997	0.993	0.989	0.984	0.980	0.976	0.971	0.967	0.963
1 004	1.037	1.033	1.029	1.025	1.021	1.016	1.012	1.008	1.004	0.999	0.995	0.991	0.986	0.982	0.978	0.973	0.969	0.964
1 006	1.040	1.035	1.031	1.027	1.023	1.018	1.014	1.010	1.006	1.001	0.997	0.993	0.988	0.984	0.980	0.975	0.971	0.966
1 008	1.042	1.037	1.033	1.029	1.025	1.020	1.016	1.012	1.008	1.003	0.999	0.995	0.990	0.986	0.982	0.977	0.973	0.968
1 010	1.044	1.039	1.035	1.031	1.027	1.022	1.018	1.014	1.010	1.005	1.001	0.997	0.992	0.988	0.984	0.979	0.975	0.970
1 012	1.046	1.041	1.037	1.033	1.029	1.025	1.020	1.016	1.012	1.007	1.003	0.999	0.994	0.990	0.986	0.981	0.977	0.972
1 014	1.048	1.043	1.039	1.035	1.031	1.027	1.022	1.018	1.014	1.009	1.005	1.001	0.996	0.992	0.988	0.983	0.979	0.974
1 016	1.050	1.046	1.041	1.037	1.033	1.029	1.024	1.020	1.016	1.011	1.007	1.003	0.998	0.994	0.990	0.985	0.981	0.976
1 018	1.052	1.048	1.043	1.039	1.035	1.031	1.026	1.022	1.018	1.013	1.009	1.005	1.000	0.996	0.992	0.987	0.983	0.978
1 020	1.054	1.050	1.045	1.041	1.037	1.033	1.028	1.024	1.020	1.015	1.011	1.007	1.002	0.998	0.994	0.989	0.985	0.980
1 022	1.056	1.052	1.048	1.043	1.039	1.035	1.030	1.026	1.022	1.017	1.013	1.009	1.004	1.000	0.996	0.991	0.987	0.982
1 024	1.058	1.054	1.050	1.045	1.041	1.037	1.032	1.028	1.024	1.019	1.015	1.011	1.006	1.002	0.998	0.993	0.989	0.984
1 026	1.060	1.056	1.052	1.047	1.043	1.039	1.035	1.030	1.026	1.021	1.017	1.013	1.008	1.004	1.000	0.995	0.991	0.986
1 028	1.062	1.058	1.054	1.049	1.045	1.041	1.037	1.032	1.028	1.023	1.019	1.015	1.010	1.006	1.002	0.997	0.993	0.988
1 030	1.065	1.060	1.056	1.051	1.047	1.043	1.039	1.034	1.030	1.026	1.021	1.017	1.012	1.008	1.004	0.999	0.995	0.990

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23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
0.942	0.938	0.934	0.929	0.924	0.920	0.915	0.910	0.906	0.901	0.896	0.891	0.886	0.881	0.876	0.871	0.866	0.860	0.854	0.848
0.944	0.940	0.935	0.931	0.926	0.922	0.917	0.912	0.908	0.903	0.898	0.893	0.888	0.883	0.878	0.873	0.867	0.861	0.856	0.850
0.946	0.942	0.937	0.933	0.928	0.924	0.919	0.914	0.910	0.905	0.900	0.895	0.890	0.885	0.880	0.875	0.869	0.863	0.858	0.852
0.948	0.944	0.939	0.935	0.930	0.926	0.921	0.916	0.911	0.907	0.902	0.897	0.892	0.887	0.882	0.876	0.871	0.865	0.859	0.853
0.950	0.946	0.941	0.937	0.932	0.927	0.923	0.918	0.913	0.908	0.903	0.898	0.894	0.889	0.884	0.878	0.873	0.867	0.861	0.855
0.952	0.948	0.943	0.939	0.934	0.929	0.925	0.920	0.915	0.910	0.905	0.900	0.896	0.891	0.885	0.880	0.875	0.869	0.863	0.857
0.954	0.950	0.945	0.941	0.936	0.931	0.927	0.922	0.917	0.912	0.907	0.902	0.898	0.892	0.887	0.882	0.877	0.871	0.865	0.859
0.956	0.952	0.947	0.943	0.938	0.933	0.928	0.924	0.919	0.914	0.909	0.904	0.899	0.894	0.889	0.884	0.878	0.873	0.867	0.861
0.958	0.954	0.949	0.945	0.940	0.935	0.930	0.926	0.921	0.916	0.911	0.906	0.901	0.896	0.891	0.886	0.880	0.874	0.869	0.863
0.960	0.956	0.951	0.946	0.942	0.937	0.932	0.928	0.923	0.918	0.913	0.908	0.903	0.898	0.893	0.888	0.882	0.876	0.870	0.864
0.962	0.957	0.953	0.948	0.944	0.939	0.934	0.929	0.925	0.920	0.915	0.910	0.905	0.900	0.895	0.890	0.884	0.878	0.872	0.866
0.964	0.959	0.955	0.950	0.946	0.941	0.936	0.931	0.927	0.922	0.917	0.912	0.907	0.902	0.897	0.891	0.886	0.880	0.874	0.868
0.966	0.961	0.957	0.952	0.948	0.943	0.938	0.933	0.929	0.924	0.919	0.914	0.909	0.904	0.899	0.893	0.888	0.882	0.876	0.870
0.968	0.963	0.959	0.954	0.949	0.945	0.940	0.935	0.931	0.926	0.920	0.915	0.911	0.906	0.900	0.895	0.890	0.884	0.878	0.872
0.970	0.965	0.961	0.956	0.951	0.947	0.942	0.937	0.932	0.927	0.922	0.917	0.913	0.907	0.902	0.897	0.891	0.885	0.880	0.874
0.972	0.967	0.963	0.958	0.953	0.949	0.944	0.939	0.934	0.929	0.924	0.919	0.914	0.909	0.904	0.899	0.893	0.887	0.881	0.875
0.974	0.969	0.965	0.960	0.955	0.951	0.946	0.941	0.936	0.931	0.926	0.921	0.916	0.911	0.906	0.901	0.895	0.889	0.883	0.877
0.976	0.971	0.967	0.962	0.957	0.952	0.948	0.943	0.938	0.933	0.928	0.923	0.918	0.913	0.908	0.903	0.897	0.891	0.885	0.879
0.978	0.973	0.968	0.964	0.959	0.954	0.950	0.945	0.940	0.935	0.930	0.925	0.920	0.915	0.910	0.904	0.899	0.893	0.887	0.881
0.980	0.975	0.970	0.966	0.961	0.956	0.951	0.947	0.942	0.937	0.932	0.927	0.922	0.917	0.912	0.906	0.901	0.895	0.889	0.883
0.982	0.977	0.972	0.968	0.963	0.958	0.953	0.948	0.944	0.939	0.934	0.929	0.924	0.919	0.913	0.908	0.903	0.897	0.891	0.885
0.983	0.979	0.974	0.970	0.965	0.960	0.955	0.950	0.946	0.941	0.936	0.931	0.926	0.920	0.915	0.910	0.904	0.898	0.893	0.886
0.985	0.981	0.976	0.972	0.967	0.962	0.957	0.952	0.948	0.943	0.937	0.932	0.928	0.922	0.917	0.912	0.906	0.900	0.894	0.888

续表

$t/^\circ\text{C}$ $p, 10^2\text{Pa}$	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1 032	1.067	1.062	1.058	1.054	1.049	1.045	1.041	1.036	1.032	1.028	1.023	1.019	1.014	1.010	1.006	1.001	0.996	0.992
1 034	1.069	1.064	1.060	1.056	1.051	1.047	1.043	1.038	1.034	1.030	1.025	1.021	1.016	1.012	1.008	1.003	0.998	0.994
1 036	1.071	1.066	1.062	1.058	1.053	1.049	1.045	1.040	1.036	1.032	1.027	1.023	1.018	1.014	1.010	1.005	1.000	0.996
1 038	1.073	1.068	1.064	1.060	1.055	1.051	1.047	1.042	1.038	1.034	1.029	1.025	1.020	1.016	1.012	1.007	1.002	0.998
1 040	1.075	1.070	1.066	1.062	1.057	1.053	1.049	1.044	1.040	1.036	1.031	1.027	1.022	1.018	1.014	1.009	1.004	1.000

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23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
0.987	0.983	0.978	0.974	0.969	0.964	0.959	0.954	0.950	0.945	0.939	0.934	0.929	0.924	0.919	0.914	0.908	0.902	0.896	0.890
0.989	0.985	0.980	0.975	0.971	0.966	0.961	0.956	0.951	0.946	0.941	0.936	0.931	0.926	0.921	0.916	0.910	0.904	0.898	0.892
0.991	0.987	0.982	0.977	0.973	0.968	0.963	0.958	0.953	0.948	0.943	0.938	0.933	0.928	0.923	0.917	0.912	0.906	0.900	0.894
0.993	0.989	0.984	0.979	0.975	0.970	0.965	0.960	0.955	0.950	0.945	0.940	0.935	0.930	0.925	0.919	0.914	0.908	0.902	0.896
0.995	0.991	0.986	0.981	0.976	0.972	0.967	0.962	0.957	0.952	0.947	0.942	0.937	0.932	0.927	0.921	0.916	0.910	0.904	0.897

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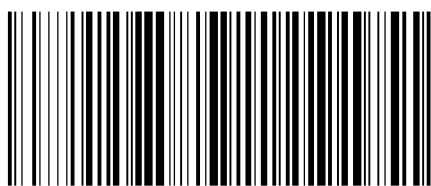
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