



Tapflo chemical guide

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Chemical guide

This resistance chart is based on knowledge from our suppliers and from our own experiences.

The chart shows the chemical resistance of different materials used in Tapflo pumps against actual liquids. Where present, information is given also about specific gravity and viscosity of the liquid.

New experiences will always come up. Therefore, you may find contradictory information from other tests. If you have additional information, please contact us, so that we may correct or supplement the resistance chart.

Please have in mind, that the result from this chart is only a recommendation, it is not a guarantee.

Resistance coding

A = Very good
B = Good
C = Uncertain
D = Not resistant

Blank = No data available

Tapflo material coding

A = Aluminium
S = Stainless steel AISI 316L
C = Cast iron
P = Polyethylene (PE)
T = PTFE (teflon)
E = EPDM rubber
N = Nitrile rubber (NBR)
V = FKM (viton)
U = Polyurethane (vulkollan)
K = Ceramic

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code											
						A	S	C	P	T	E	N	V	U	K		
Abietic acid	C20H30O2	100	20	0.974		A	A			A							
Accumulator acid (Battery acid)	H2SO4	40	20	1.8454		D	D		A	A	A	C	A				
Acetaldehyde (Ethanal)	CH3CHO, C2H4O	100	20	0.783	0.4	A	A	C	A	A	A	D	C	D			
Acetaldehyde (Ethanal)	CH3CHO, C2H4O	100	60	0.783	0.4	A	A	C		A	B	D	D	D			
Acetaldehyde, aqueous	CH3CHO+H2O	40	20	0.783		A	A	C	A	A	A	D	B	D			
Acetaldehyde, aqueous	CH3CHO+H2O	40	60	0.783		A	A	C		A	A	D	C	D			
Acetaldehyde, aqueous	CH3CHO+H2O	40	80	0.783		A	A	C		A	B	D	D	D			
Acetamid	CH3CONH2	100	20	0.980		A	A	D	A	A	A	A	A	D			
Acetate solvent, crude		100	20				A	D				D	D	D			
Acetate solvent, crude		100	20				A	A				D	D	D			
Acetic acid	CH3CO2H	10	20	1.060	2	A	A	C	A	A	B	C	B	B	A		
Acetic acid	CH3CO2H	50	20	1.060	2	A	A	C	A	A	C	C	B	B	A		
Acetic acid	CH3CO2H	100	20	1.050	2	B	A	C	A	A	C	C	B	B	A		
Acetic acid	CH3CO2H	10	40	1.060	2	A	A	C	A	A	C	C	B	B	A		
Acetic acid	CH3CO2H	50	40	1.060	2	A	A	C	A	A	C	C	B	B	A		
Acetic acid	CH3COOH, CH3CO2H	10	20	1.0492		A	A	D	A	A	B	D	B	C			
Acetic acid	CH3COOH, CH3CO2H	10	40	1.0492		A	A	D	A	A	D	D	B	C			
Acetic acid	CH3COOH, CH3CO2H	10	80	1.0492		A	A	D		A	D	D	D	C			
Acetic acid	CH3COOH, CH3CO2H	20	20	1.0492		A	A	D	A	A	C	D	B	C			
Acetic acid	CH3COOH, CH3CO2H	20	40	1.0492		A	A	D	A	A	D	D	B	C			
Acetic acid	CH3COOH, CH3CO2H	20	60	1.0492		A	A	D	A	A	D	D	B	C			
Acetic acid	CH3COOH, CH3CO2H	20	80	1.0492		A	A	D		A	D	D	C	C			
Acetic acid	CH3COOH, CH3CO2H	30	20	1.0492		A	A	D	A	A		D	B				
Acetic acid	CH3COOH, CH3CO2H	50	20	1.060		A	A	D	A	A	D	D	B				
Acetic acid	CH3COOH, CH3CO2H	50	40	1.0492		A	A	A	A	A	D	D	B				
Acetic acid	CH3COOH, CH3CO2H	50	60	1.0492		A	A	D	A	A	D	D	B				
Acetic acid	CH3COOH, CH3CO2H	50	80	1.05		A	A	D		A	D	D	C				
Acetic acid	CH3COOH, CH3CO2H	80	20	1.05		A	A	D		A	D	D	B				
Acetic acid	CH3COOH, CH3CO2H	80	40	1.06		A	A	D		A	D	D					
Acetic acid	CH3COOH, CH3CO2H	80	60	1.060		A	A	D		A	D	D					
Acetic acid	CH3COOH, CH3CO2H	80	80	1.06		A	A	D		A	D	D					
Acetic acid methyl ester (Metyl acetate)	CH3CO2CH3	100	20	0.930					A								
Acetic acid, glacial	CH3COOH, CH3CO2H	100	20	1.050	1.2	D	A	D	A	A	D	D	B	C			
Acetic acid, glacial	CH3COOH, CH3CO2H	100	40	1.050	1.2	B	A	D	A	A	D	D		C			
Acetic acid, glacial	CH3COOH, CH3CO2H	100	60	1.050	1.2	B	A	D		A	D	D		C			
Acetic acid, glacial	CH3COOH, CH3CO2H	100	80	1.05		B	A	D		A	D	D					

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm ³)	Visc (cSt)	Material code											
						A	S	C	P	T	E	N	V	U	K		
Acetic anhydride, pure	(CH ₃ CO) ₂ O	100	20	1.080		B	A	C	A	A	C	D	D	D			
Acetic anhydride, pure	(CH ₃ CO) ₂ O	100	40	1.080		B	A	C		A	D	D	D	D			
Acetic anhydride, pure	(CH ₃ CO) ₂ O	100	60	1.080		B	A	C		A	D	D	D	D			
Acetic ether (Ethyl acetate)	CH ₃ COOC ₂ H ₅ , CH ₃ COOCH ₂ CH ₃	100	20	0.902	0.5	A	A	A	A	A	B	D	D	D			
Acetoacetic ester (Ethyl acetoacetate)	CH ₃ COCH ₂ COOC ₂ H ₅	100	20	1.030			A								D	A	
Acetone (Dimethyl ketone)	CH ₃ COCH ₃ , C ₃ H ₆ O	100	20	0.790	1.3	B	A	A	A	A	B	D	D	D	D	A	
Acetone (Dimethyl ketone)	CH ₃ COCH ₃ , C ₃ H ₆ O	100	60	0.80		B	A	A		A		D	D				
Acetone cyanhydrine	(CH ₃) ₂ C(OH)CN	100	20	0.930													
Acetone, aqueous	CH ₃ COCH ₃ +H ₂ O	10	20						A								
Acetone, aqueous	CH ₃ COCH ₃ +H ₂ O	100	20			B	A	A		A	A	B	A				
Acetone, aqueous	CH ₃ COCH ₃ +H ₂ O	100	40			B	A	A		A	A	C	A				
Acetone, aqueous	CH ₃ COCH ₃ +H ₂ O	100	60			B	A	A		A	A		A				
Acetone, aqueous	CH ₃ COCH ₃ +H ₂ O	100	80			B	A	A		A	B		A				
Acetonitrile (Methyl cyanide)	CH ₃ CN	100	20	0.787		A	A			A	A	C	C				
Acetonitrile (Methyl cyanide)	CH ₃ CN	100	60	0.787		A	A			A							
Acetonitrile (Methyl cyanide)	CH ₃ CN	100	80	0.787		A	A										
Acetophenone	C ₆ H ₅ COCH ₃ , C ₈ H ₈ O	100	20	1.030		A	A		A	A	A	D	C	D	A		
Acetophenone	C ₆ H ₅ COCH ₃ , C ₈ H ₈ O	100	40	1.030						A	A	D	D	D			
Acetophenone	C ₆ H ₅ COCH ₃ , C ₈ H ₈ O	100	60	1.030						A	A	D	D	D			
Acetophenone	C ₆ H ₅ COCH ₃ , C ₈ H ₈ O	100	80	1.03						A	B	D	D	D			
Acetyl acetone	C ₅ H ₈ O ₂	100	20														
Acetyl bromide	CH ₃ COBr, C ₂ H ₃ OBr	100	20	1.520						A							
Acetyl bromide	CH ₃ COBr, C ₂ H ₃ OBr	100	80	1.520						A							
Acetyl chloride (Acetic chloride)	CH ₃ COCl	100	20	1.105		D	B			A	D	D	D	D	A		
Acetyl chloride (Acetic chloride)	CH ₃ COCl	100	40	1.105		D	B			A	D	D	D	D			
Acetyl chloride (Acetic chloride)	CH ₃ COCl	100	60	1.105		D	B			A	D	D	D	D			
Acetyl hydroperoxide	CH ₃ COOOH, CH ₃ CO ₂ OH	100	20	1.150													
Acetyl ketene	CH ₂ :CCH ₂ C(O)O	100	20	1.080													
Acetyl peroxide	(CH ₃ CO) ₂ O ₂	100	20	1.180													
Acetylene (Ethyne)	C ₂ H ₂	100	20	0.6181		A	A	A	A	A	C	A	A				
Acetylene (Ethyne)	C ₂ H ₂	100	60	0.6181		A	A	A		A	D	B	A				
Acetylene dichloride	CHCl=CHCl	100	20	1.270													
Acetylene tetrabromide	CHBr ₂ CHBr ₂ , (CHBr ₂) ₂	100	20	2.970			A	D					A				
Acetylsalicylic acid	CH ₃ CO ₂ C ₆ H ₄ CO ₂ H	100	20	1.200		A	A	D		A		D	D		A		
Acrylic acid (Propene acid)	CH ₂ =CHCOOH, CH ₂ CHCOOH	100	20	1.050													
Acrylic acid ethyl ester	CH ₂ =CHCOOC ₂ H ₅	100	20	0.920						A							

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm ³)	Visc (cSt)	Material code															
						A	S	C	P	T	E	N	V	U	K						
Acrylic acid ethyl ester	CH ₂ =CHCOOC ₂ H ₅	100	40	0.920							A										
Acrylic acid ethyl ester	CH ₂ =CHCOOC ₂ H ₅	100	60	0.920							A										
Acrylic acid ethyl ester	CH ₂ =CHCOOC ₂ H ₅	100	80	0.920							B										
Acrylic aldehyde	CH ₂ =CHCHO	100	20	0.840																	
Acrylic amide	CH ₂ =CHCONH ₂	100	20	1.120																	
Acrylonitrile	CH ₂ CHCN, CH ₂ =CHCN	100	40	0.806		A	A	C	A	A	A	D	D								
Acrylonitrile	CH ₂ CHCN, CH ₂ =CHCN	100	60	0.806		A	A	C	A	A	B	D	D								
Acrylonitrile	CH ₂ CHCN, CH ₂ =CHCN	100	20	0.806		A	A	C	A	A	A	D	D								A
Adipic acid	(CH ₂) ₄ (COOH) ₂ , (C ₂ H ₄ COOH) ₂	100	20	1.360		B	B			A	A	A	A								
Adipic acid, aqueous, saturated	(CH ₂) ₄ (COOH) ₂ , (C ₂ H ₄ COOH) ₂	100	20	1.360		B	B		A	A	A	A	A								
Adipic acid, aqueous, saturated	(CH ₂) ₄ (COOH) ₂ , (C ₂ H ₄ COOH) ₂	100	80	1.360		B	B			A	B		A								
Adiponitrile	CN(CH ₂) ₄ CN	100	20	0.960																	
Adrament solution		100	20																		
Alkane	C ₁₂ H ₂₅ -C ₆ H ₅	100	20	0.870																	
Alkane sulfonic acid	C _n H _{2n} SO ₃ H	100	20			D	A			A											
Alkazene		100	20															B	B		
Alkyl aryl sulphonate	C _n H _{2n+1} C ₆ H ₄ SO ₃ Na	100	20			A	A														A
Allyl alcohol (Propenyl alcohol)	CH ₂ CHCH ₂ OH, H ₂ C=CHCH ₂ OH	96	20	0.852			A		A	A	C	A	C								
Allyl alcohol (Propenyl alcohol)	CH ₂ CHCH ₂ OH, H ₂ C=CHCH ₂ OH	100	20	0.852	1.6		A			A		A	A								A
Allyl alcohol (Propenyl alcohol)	CH ₂ CHCH ₂ OH, H ₂ C=CHCH ₂ OH	100	60	0.852			A			A		B	A								
Allyl alcohol (Propenyl alcohol)	CH ₂ CHCH ₂ OH, H ₂ C=CHCH ₂ OH	100	80				A			A			B								
Allyl amine	CH ₂ =CHCH ₂ NH ₂	100	20	0.760																	
Allyl chloride	CH ₂ =CHCH ₂ Cl	100	20	0.940	1.0	A				A	D	B	B								A
Allyl chloride	CH ₂ =CHCH ₂ Cl	100	40	0.940	1.0	A				A	D	C	B								
Allyl chloride	CH ₂ =CHCH ₂ Cl	100	60	0.940	1.0	A				A	D	D	C								
Allyl chloroformate	CH ₂ :CHCH ₂ OCCl	100	20	1.140																	
Alum (Potassium aluminium sulphate)	KAl(SO ₄) ₂	100	20	1.76							A	A	A	A							
Alum (Potassium aluminium sulphate)	KAl(SO ₄) ₂	100	80								A	B	B	A							
Aluminium acetate, saturated	Al(CH ₃ COO) ₃	100	20			A	B		A	A	A	A	A	D	A						
Aluminium acetate, saturated	Al(CH ₃ COO) ₃	100	40			A	B		A	A	A	A	A	D							
Aluminium bromide, saturated	(AlBr ₃), AlBr ₃	100	20	3.210							A	A	A	A							
Aluminium chlorate	Al(ClO ₃) ₃ +6H ₂ O	100	20				A			A											A
Aluminium chloride, powder	AlCl ₃	100	20	2.44		D	D	D	A	A	A	A	A								
Aluminium chloride, saturated	AlCl ₃	5	20	1.030		D	D	D	A	A	A	A	A	B							
Aluminium chloride, saturated	AlCl ₃	10	20	1.090		D	D	D	A	A	A	A	A	B	A						
Aluminium chloride, saturated	AlCl ₃	20	20			D	C	D	A	A	A	A	A	B							

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm ³)	Visc (cSt)	Material code										
						A	S	C	P	T	E	N	V	U	K	
Aluminium chloride, saturated	AlCl3	100	20	2.440		D	D	D	A	A	A	A	A	D	A	
Aluminium chloride, saturated	AlCl3	100	60			D	D	D	A	A	A		A			
Aluminium chloride, saturated	AlCl3	100	80			D	D	D		A	A		A	D		
Aluminium etch		100	20				D	D					A	A		
Aluminium ethylate	Al(C2H5O)3	100	20													
Aluminium fluoride, saturated	AlF3, Al2F3	100	20			A	C			A	A	A	A	C	A	
Aluminium hydroxide, saturated	Al(OH)3	100	20			B	A	A	A	A	A	A	A		A	
Aluminium hydroxide, saturated	Al(OH)3	100	80			B	A	A		A	B	B	A			
Aluminium nitrate, saturated	Al(NO3)3+9H2O	10	20	1.050		D	A			A	A	A	A	C		
Aluminium nitrate, saturated	Al(NO3)3+9H2O	100	20			D	A			A	A	A	A	C	A	
Aluminium nitrate, saturated	Al(NO3)3+9H2O	100	80			D	A			A	A	B	A			
Aluminium oxide	AlO3	100	20				A	D	A			A	A			
Aluminium phosphate	AlPO4	100	20				A				A	A	A			
Aluminium pulverized	Al.	100	20	2.710												
Aluminium silicofluoride	Al2(SiF6)3	100	20				A								A	
Aluminium sulphate, saturated	Al2(SO4)3	10	20	1.110		B	A	D		A	A	A	A	D	A	
Aluminium sulphate, saturated	Al2(SO4)3	100	20	1.610		B	A	D		A	A	A	A	D	A	
Amber acid (Succinic acid), saturated	C4H6O4, C2H4(COOH)2	100	20	1.56						A	A	A	A			
Amines	R-NH2	100	20				A	D			B	D	D	D		
Aminopyridine	C5H4N-NH2	100	20			A	A								A	
Aminosalicylic acid	H2NC6H3(OH)CO2H	100	20			A	A			A					A	
Ammonia alum	(NH4)Al(SO4)2+12H2O	10	25	1.050						A	A	A	A			
Ammonia alum	(NH4)Al(SO4)2+12H2O	100	20							A	A	A	A			
Ammonia alum	(NH4)Al(SO4)2+12H2O	100	80							A	A	B	A			
Ammonia gas	NH3	100	20	0.770	0.3					A	A	A	A	D		
Ammonia gas	NH3	100	60	0.770						A	A	A	B	D		
Ammonia gas	NH3	100	80							A	B		D			
Ammonia liquor	NH3+H2O, NH4OH	100	20	0.800						A	A	A	C			
Ammonia liquor	NH3+H2O, NH4OH	100	40							A	B	B				
Ammonia nitrate	NH4NO3	100	20	1.720			A	A				A		D		
Ammonia water	NH3+H2O, NH4OH	10	20	0.900	1.0	A	A	A		A	A	A	B	B		
Ammonia water	NH3+H2O, NH4OH	10	25	0.960		A	A	A		A	A	A	B	B		
Ammonia water	NH3+H2O, NH4OH	10	40			A	A	A		A	A	B	C			
Ammonia water	NH3+H2O, NH4OH	10	60			A	A	A		A	A	B	D			
Ammonia water	NH3+H2O, NH4OH	10	80			A	A	A		A	A		D			
Ammonia water	NH3+H2O, NH4OH	25	20	0.910		A	A	A		A		A	D	B		

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code										
						A	S	C	P	T	E	N	V	U	K	
Ammonia water	NH3+H2O, NH4OH	28	20			A	A	A		A		A	D	B		
Ammonia water	NH3+H2O, NH4OH	35	20	0.900	1.0	A	A	A		A		A	D			
Ammonia, anhydrous	NH3	100	20			A	A	A		A	A	A	C			
Ammonia, anhydrous	NH3	100	40			A	A	A		A	B	B				
Ammonium acetate, saturated	NH4OOCCH3, H3CCOONH4	100	20	1.171		A	A		A	A	A	A	A		A	
Ammonium acetate, saturated	NH4OOCCH3, H3CCOONH4	100	80			A	A		A	A		A	A		A	
Ammonium bicarbonate	NH4HCO3	100	20			A	A	C		A		A	A		A	
Ammonium bifluoride, saturated	NH4NF2, (NH4)FHF	20	20				A	D		A	A	A	A			
Ammonium bifluoride, saturated	NH4HF2, (NH4)FHF	100	20	1.500			A	D		A	A	A	A			
Ammonium bifluoride, saturated	NH4HF2, (NH4)FHF	100	80				A	D		A	B	B	B			
Ammonium bisulfite	NH4HSO3	100	20				A			A						A
Ammonium bromide	NH4Br	5	25	1.030		D	C									
Ammonium bromide	NH4Br	40	20	1.270		D										
Ammonium carbonate, saturated	(NH4)2CO3+H2O	10	20	1.030		A	A	A	A	A	A	A	A			
Ammonium carbonate, saturated	(NH4)2CO3+H2O	25	20	1.100		A	A	A	A	A	A	A	A	A	A	A
Ammonium carbonate, saturated	(NH4)2CO3+H2O	50	20			B	A	A								
Ammonium carbonate, saturated	(NH4)2CO3+H2O	100	20			B	B	A	A	A	A	A	A			
Ammonium casenite		100	20				A									
Ammonium chloride, saturated	NH4Cl	10	20													A
Ammonium chloride, saturated	NH4Cl	25	20	1.070						A	A	A	A	A		
Ammonium chloride, saturated	NH4Cl	100	20	1.070		D	B	D	A	A	A	A	A	A		
Ammonium chloride, saturated	NH4Cl	100	80			D	B	D		A	A	B	A			
Ammonium fluoride (Fluorammon)	NH4F	6	20	1.030												
Ammonium fluoride (Fluorammon)	NH4F	14	20	1.060		A	D			A		A	A			
Ammonium fluoride (Fluorammon)	NH4F	20	20	1.060			A			A	A	A	A			
Ammonium fluoride (Fluorammon)	NH4F	20	80				A			A						
Ammonium fluoride, powder	NH4F	100	20	1.315												
Ammonium fluoride, solution	NH4F	100	20	1.015												
Ammonium fluorsilicate	(NH4)2SiF6	100	20			A	A									A
Ammonium formate	NCO2NH4	100	20	1.266		A	A			A						A
Ammonium hydrogen fluoride	NH4HF2, (NH4)FHF	50	20	1.50						A						A
Ammonium hydrogen phosphat	(NH4)2HPO4	100	20													
Ammonium hydrogen sulphide	(NH4)HS	100	20	1.17												
Ammonium hydroxide	NH3+H2O, NH4OH	100	20	0.800		B	A	A		A	A	B	B	D		
Ammonium hydroxide	NH3+H2O, NH4OH	100	40			B	A	A		A	A	D	B	D		
Ammonium hydroxide	NH3+H2O, NH4OH	100	60	1	1.0	B	A	A		A	A	D	C	D		

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code															
						A	S	C	P	T	E	N	V	U	K						
Ammonium iodide	NH4I	45	20	1.380																	
Ammonium metaphosphate	NH4PO3	100	20	2.2						A	A	A									
Ammonium metaphosphate	NH4PO3	100	40	2.2						A	A	B	A								
Ammonium nitrate	NH4NO3	10	20	1.040		A	A	A	A	A	A	A	A								
Ammonium nitrate	NH4NO3	50	20	1.230		A	A	A		A	A	A	A							A	
Ammonium nitrate	NH4NO3	60	20	1.230		A	A	A		A	A	A	A								
Ammonium nitrate	NH4NO3	100	20	1.720		B	A	A		A	A	A	A								
Ammonium nitrate, saturated	NH4NO2	100	20										A								
Ammonium oxalate	(NH4)2C2O4, (COONH4)2+H2O	30	25	1.040		A	A	D					A								
Ammonium oxalate	(NH4)2C2O4, (COONH4)2+H2O	100	20			A	A	D					A								
Ammonium perchlorate	NH4ClO4	10	25	1.040																	
Ammonium perchlorate	NH4ClO4	14	20	1.070		A															
Ammonium perchlorate	NH4ClO4	100	20	1.950																	
Ammonium persulphate	(NH4)2S2O8	10	25	1.060		D		D		A	A		A	D							
Ammonium persulphate	(NH4)2S2O8	40	20			D	A	D		A	A	A	A	D							
Ammonium persulphate	(NH4)2S2O8	50	20			D		D		A	A	A	A	D							
Ammonium persulphate	(NH4)2S2O8	100	20			D	A	D		A	A	D	A	D							
Ammonium phosphate, dibasic	(NH4)2HPO4	50	20			D	C	C		A	A	A	A								
Ammonium phosphate, dibasic	(NH4)2HPO4	100	20			D	C	C			A	A	A								
Ammonium phosphate, mono	NH4H2PO4, (NH4)H2PO4	100	20			D	C	D		A	A	A	A								
Ammonium phosphate, mono	NH4H2PO4, (NH4)H2PO4	100	60			D	C	D		A	A	B	A								
Ammonium phosphate, tribasic	(NH4)3H2PO4	100	20				A	A			A	A	A								
Ammonium stannic chloride	(NH4)2SnCl6	100	20				A														
Ammonium sulphate, saturated	(NH4)2SO4	10	20	1.060		A	A	C		A	A	A	A	A							
Ammonium sulphate, saturated	(NH4)2SO4	50	20	1.280		A	A	C		A	A	A	A	A	A						
Ammonium sulphate, saturated	(NH4)2SO4	100	20	1.300		D	B	C		A	A	A	A	A							
Ammonium sulphide, saturated	(NH4)2S	100	20			A	A			A		A								A	
Ammonium sulphite, diluted	(NH4)2SO3	100	20			A	A			A		A								A	
Ammonium thiosulphate	(NH4)2S2O3	100	20				A	D					A								
Amyl acetate, pure	CH3COOC5H11, C7H14O2	100	20	0.880	2.3	B	A	C	A	A	B	D	D	D	A						
Amyl acetate, pure	CH3COOC5H11, C7H14O2	100	40	0.880		B	A	C	A	A	C	D	D	D							
Amyl acetate, pure	CH3COOC5H11, C7H14O2	100	60			B	A	C		B		D	D	D							
Amyl alcohol (Amyl hydrate), pure	C5H11OH	100	20	0.820	1.2	A	A	A	A	A	A	B	A	D	A						
Amyl alcohol (Amyl hydrate), pure	C5H11OH	100	60			A	A	A		A	A	B	B	D							
Amyl alcohol (Amyl hydrate), pure	C5H11OH	100	80			A	A	A		A	A		A	D							
Amyl borate, pure		100	20								A	B	A	A							

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm ³)	Visc (cSt)	Material code										
						A	S	C	P	T	E	N	V	U	K	
Amyl chloronaphtalene		100	20							A				A	D	
Amyl chloride, pure	C ₅ H ₁₁ Cl, CH ₃ (CH ₂) ₃ CH ₂ Cl	100	20	0.870		D	D			A	D	B	B			A
Amyl chloride, pure	C ₅ H ₁₁ Cl, CH ₃ (CH ₂) ₃ CH ₂ Cl	100	80			D	D			A	D					
Amyl mercaptan	CH ₃ (CH ₂) ₄ SH, C ₅ H ₁₁ SH	100	20	0.850												
Amyl naphtalene		100	20											D	A	D
Aniline dyes	R-C ₆ H ₄ NH ₂	100	20			B	A	C		A	C	C	B			
Aniline hydrochloride, pure	C ₆ H ₅ NH ₂ HCl	20	20	1.090		D	D		A	A		B	A	D		
Aniline hydrochloride, pure	C ₆ H ₅ NH ₂ HCl	100	20	1.080		D	D			A		B	A	D	A	
Aniline hydrochloride, pure	C ₆ H ₅ NH ₂ HCl	100	60			D	D			A		B	A	D		
Aniline hydrochloride, pure	C ₆ H ₅ NH ₂ HCl	100	80			D	D			A		B		D		
Aniline oil	C ₆ H ₇ N, C ₆ H ₅ NH ₂	100	20	1.020			A	A				B	D	A		
Aniline sulphate	(C ₆ H ₅ NH ₂) ₂ H ₂ SO ₄	100	20			A	A			A						
Aniline, pure	C ₆ H ₅ NH ₂ , C ₆ H ₇ N	100	20	1.020		B	A	A	A	A	B	D	B			A
Aniline, pure	C ₆ H ₅ NH ₂ , C ₆ H ₇ N	100	40			B	A	A	A	A	C	D	B			
Aniline, pure	C ₆ H ₅ NH ₂ , C ₆ H ₇ N	100	60			B	A	A		A	D	D	B			
Aniline, pure	C ₆ H ₅ NH ₂ , C ₆ H ₇ N	100	80			B	A	A		A	D	D				
Animal fats		100	20													B
Animal oil (Lard)		100	20			A	A			A	A	A	A	A		
Anise oil		100	20				A	D						A		
Anisole	C ₆ H ₅ OCH ₃	100	20	1.000		A	A			A		D	D			
Anon (Cyclohexanone), pure	C ₆ H ₁₀ O, (CH ₂) ₅ CO	100	20	0.950	5.0	A	A			A	C	D	D	D		
Ansul ether (Methylphenyleyher)	C ₆ H ₅ OCH ₃	100	20									C	D	B		
Antiformin	NaOCl(KOCl)	100	20	1.220		A				A		A	A			
Anti-freeze		100	20	1.110			A	A				A	A			
Antimony	Sb	100	20													
Antimony fluoride	SbF ₅	100	20	3.000												
Antimony pentachloride	SbCl ₅	100	20	2.350												
Antimony pentasulfide	Sb ₂ S ₅	100	20	4.120												
Antimony trichloride, saturated	SbCl ₃	90	20				D			A				A		A
Antimony trichloride, saturated	SbCl ₃	100	20	3.140			D			A	B			A		
Antimony trichloride, saturated	SbCl ₃	100	40				D			A				A		
Antimony trichloride, saturated	SbCl ₃	100	60				D			B				A		
Antimony trichloride, saturated	SbCl ₃	100	80				D			B				B		
Antimony, plating solution		100	20				A							A	A	
Antracenoil	C ₁₄ H ₁₀	100	25	1.250												
Antraquinone sulphonic acid	C ₆ H ₄ (CO) ₂ C ₆ H ₃ SO ₃ H	30	20			A	A			A	A			A		A

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code										
						A	S	C	P	T	E	N	V	U	K	
Aqua Regia	80%HCl+20%HNO3	100	20			D	D			A	B	D	C	D	A	
Aqua Regia	80%HCl+20%HNO3	100	60			D	D			A	C	D		D		
Arochlor		100	20			A	A			A	B	D	A			
Aromatic hydrocarbon		100	20				A				D	D	A	D		
Arsenic acid	H3AsO4+1/2 H2O	80	20			D	A	D	A	A	A	A	A	C	A	
Arsenic acid, saturated	H3AsO4	10	20	1.070						A	A	A	A	C		
Arsenic acid, saturated	H3AsO4	80	20											C		
Arsenic acid, saturated	H3AsO4	100	20	2.500		D	B	D	A	A	A	A	A	C		
Arsenic acid, saturated	H3AsO4	100	40			D	B	D		A	A	A	A			
Arsenic acid, saturated	H3AsO4	100	60			D	B	D		A	B	B	B			
Arsenic acid, saturated	H3AsO4	100	80			D	B	D		A	B	B	B			
Arsenic trichloride	AsCl3	100	20			D	D				D	A				
Arsenic trioxide, powder	As2O3	100	20	3.740												
Arsenic, plating solution		100	20				A					A	A	C		
Arsine	AsH3	100	20													
Ascorbic acid	C6H8O6	100	20			A										
Askarel		100	20								D	B	A	D		
Asphalt		100	20	1.100	500-2500	C	A	A	A	A	D	B	A	B		
Aviation petrol (Aviation spirit)		100	20	0.720												
Barbeque sauce		100	20		2000		A	D				A				
Barium carbonate, saturated	BaCO3	100	20			A	A		A	A	A	A	A			
Barium carbonate, saturated	BaCO3	100	80			A	A			A	A	B	A			
Barium chlorate	Ba(ClO3)2+H2O	20	20	1.180		A	A							A	A	
Barium chlorate	Ba(ClO3)2	100	20	3.180												
Barium chlorate	BaCL2	10	20	1.090		A		C		A	A	A	A	A		
Barium chlorate	BaCl2	25	20	1.270		A	D	C		A	A	A	A	A	A	
Barium chlorate, saturated	BaCl2+2H2O	100	20	3.860		A	B	C	A	A	A	A	A	A		
Barium chlorate, saturated	BaCl2+2H2O	100	80			A	B	C		A	A	B	A			
Barium cyanide	Ba(CN)2	100	20				A				A	C	A			
Barium dioxide	BaO2	100	20	4.960												
Barium hydrate	BaOH	100	20				A	A				A				
Barium hydroxide, saturated	Ba(OH)2	4	20	1.040		A	A	A		A	A	A	A	A	A	
Barium hydroxide, saturated	Ba(OH)2	100	20			D	A	A	A	A	A	A	A	A		
Barium hydroxide, saturated	Ba(OH)2	100	80			D	A	A		A	A	B	A			
Barium nitrate	Ba(NO3)2	8	20	1.070		A	A	A		A	A	A	A			
Barium nitrate, saturated	Ba(NO3)2	100	20	3.240			A	A		A	A	A	A			

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm ³)	Visc (cSt)	Material code											
						A	S	C	P	T	E	N	V	U	K		
Barium nitrate, saturated	Ba(NO ₃) ₂	100	80				A	A			A	B	A				
Barium salts		100	20									A					
Barium sulphate, saturated	BaSO ₄	100	20				B	A			A	A	A	A	A		
Barium sulphate, saturated	BaSO ₄	100	80				B	A			A	A	B	A			
Barium sulphide, saturated	BaS	100	20	4.36			D	A		A	A	A	B	A	A		
Barium sulphite	BaSO ₃	100	20									A	A	A			
Beef extract		100	20				A	D				A	A				
Beer		100	20	1.010	2.0		A	A	D		A	A	B	A	D		
Beet sugar liquor		100	20				A	A	A		A	A	A	A	D		
Benzaldehyde	C ₆ H ₅ CHO	10	20	1.08			A	A	A	A	A	C	D	C	D		
Benzaldehyde	C ₆ H ₅ CHO	10	60				A	A	A		A		D		D		
Benzaldehyde, above 10%	C ₆ H ₅ CHO	10	20				A	A	A		A	C	D	C	D		
Benzaldehyde, above 10%	C ₆ H ₅ CHO	10	40				A	A	A		A		D		D		
Benzaldehyde, saturated	C ₆ H ₅ CHO	100	20	1.050			A		A	A	A	C	A	D			
Benzene (Benzol), pure	C ₆ H ₆	100	20	0.880	1.0		B	B	A		A	D	D	B	D	A	
Benzene (Benzol), pure	C ₆ H ₆	100	40				B	B	A		A	D	D	B	D		
Benzene (Benzol), pure	C ₆ H ₆	100	80				B	B	A		A	D	D	B	D		
Benzene hexachloride	C ₆ H ₆ Cl ₆	100	20	1.870													
Benzene sulphonic acid	C ₆ H ₅ SO ₃ H, C ₆ H ₅ SO ₂ OH	10	20				D	B	D		A	C	D	A	D		
Benzene sulphonic acid	C ₆ H ₅ SO ₃ H, C ₆ H ₅ SO ₂ OH	10	60				D	B	D		A	C	D	A	D		
Benzene sulphonic acid	C ₆ H ₅ SO ₃ H, C ₆ H ₅ SO ₂ OH	10	80				D	B	D		A	C	D		D		
Benzene sulphonic acid	C ₆ H ₅ SO ₃ H, C ₆ H ₅ SO ₂ OH	100	20				D	A	D	A	A	C					
Benzine (Gasoline), leaded	C _n H _{2n+2}	100	20	0.750	1.0		A	A	A		A	D	B	B	D		
Benzine (Gasoline), sour	C _n H _{2n+2}	100	20				A	A	A		A	D	B	A	C		
Benzine (Gasoline), unleaded	C _n H _{2n+2}	100	20	0.750	1.0		A	A	A		A	D	B	B	D		
Benzine (Petrol), chemically pure	C _n H _{2n+2}	100	20	0.730			A	A	A		A	D	A	A	D		
Benzine (Petrol), chemically pure	C _n H _{2n+2}	100	40				A	A	A		A	D	A	A	D		
Benzine (Petrol), pure	C _n H _{2n+2}	100	20	0.730			A	A	A	A	A	D	A	A	D		
Benzine (Petrol), pure	C _n H _{2n+2}	100	40				A	A	A	A	A	D	A	A	D		
Benzine (Petrol), pure	C _n H _{2n+2}	100	60				A	A	A		A	D	B	B	D		
Benzoate soda	C ₆ H ₅ CO ₂ Na	36	20														
Benzoic acid, pure	C ₆ H ₅ COOH	50	20	1.060			B	B	D		A	A	B	A	D		
Benzoic acid, pure	C ₆ H ₅ COOH	100	20	1.270			B	B	D	A	A	A	B	A	D	A	
Benzoic acid, pure	C ₆ H ₅ COOH	100	40	1.270			B	B	D	A	A	A	B	A	D		
Benzoic acid, pure	C ₆ H ₅ COOH	100	60				B	B	D		A	A	B	A	D		
Benzoic acid, pure	C ₆ H ₅ COOH	100	80				B	B	D		A	B		A	D		

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm ³)	Visc (cSt)	Material code														
						A	S	C	P	T	E	N	V	U	K					
Benzoic trichloride	C6H5CCl3	100	20	1.375																
Benzonitrile	C7H5N	100	20							A										
Benzotrifluoride	C6H5CF3	100	20	1.200																
Benzoyl chloride	C6H5COCl	100	20	1.210		A					A								D	
Benzoyl peroxide	(C6H5CO)2O2	100	20	1.330																
Benzyl acetate	C6H5CH2CO2CH3	100	20	1.050		A														
Benzyl alcohol, chemically pure	C6H5CH2OH, C7H8O	100	20	1.040		B	A	A	A	A	B	D	A							
Benzyl alcohol, chemically pure	C6H5CH2OH, C7H8O	100	60			B	A	A	A	A	C	D	A							
Benzyl alcohol, chemically pure	C6H5CH2OH, C7H8O	100	80			B	A	A		A		D	B							
Benzyl benzoate, saturated	C14H12O2	100	20			A	B	B		A	B	D	A							
Benzyl butyl phtalate	C6H4CO2CH2C6H5CO2(CH2)3CH3	100	20	1.093		A	A		A											
Benzyl chloride, pure	C6H5CH2Cl	100	20	1.104	1.2	D	B	D		A	D	D	A	D						
Benzyl cyanide	C6H5CH2CN	100	20	1.020																
Benzyl peroxide, powder	(C6H5CO)2O2	100	20	1.330			A	D												
Benzyl sulfanilic acid	C6H5CH2NHC6H4SO3H	100	20			A	A			A									D	
Beryllium chloride	BeCl2	10	20	1.070		A	D			A										A
Beryllium sulphate	BeSO4	10	20	1.090		D	A			A										A
Beryllium, powder	Be	100	20	1.850																
Biphenyl	C6H5C6H5	100	25	1.990																
Birch oil		100	20				A						A	A						
Biscuit dough		100	20				A						A	A						
Bisque mass		100	20				A						A	A						
Black liquor, saturated		100	20			C	B			A	A	A	A							
Black liquor, saturated		100	80			C	B			A	A	B	A							
Blast furnace gas		100	20							A		D	A	D						
Bleach liquor (Bleaching agent)	CaOCl2	5	20				A			A	A	C	A	D						
Bleach liquor (Bleaching agent)	CaOCl2	12	20				A			A	B	C	A	D						
Bleaching agent	CaOCl2	5	20				A			A	A	C	A							
Bleaching agent	CaOCl2	12	20				A			A	B	C	A							
Blood		100	20	1.0	5.0	B	A						A							
Bone oil		100	20	0.92	50.0		A	A	A				A	A						
Bone oil (Dippel's oil)		100	20				A	A					A							
Borax (Sodium tetraborate)	Na2B4O7+10H2O	3.5	20	1.030		C	A	A		A	A	A	A	A						
Borax (Sodium tetraborate)	Na2B4O7+10H2O	100	20	2.370		C	A	A		A	A	A	A							
Borax (Sodium tetraborate)	Na2B4O7+10H2O	100	40			C	A	A		A	A	B	A							
Borax (Sodium tetraborate)	Na2B4O7+10H2O	100	60			C	A	A		A	A	C	A							

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm ³)	Visc (cSt)	Material code										
						A	S	C	P	T	E	N	V	U	K	
Borax (Sodium tetraborate)	Na ₂ B ₄ O ₇ +10H ₂ O	100	80			C	A	A		A		D	A			
Bordeaux mixture		100	20			D	A			A	A		A	D		
Boric acid, saturated	H ₃ BO ₃ , B(OH) ₃	10	20	1.010					A	A	A	A	A	A		
Boric acid, saturated	H ₃ BO ₃ , B(OH) ₃	50	20						A	A	A	A	A	A		
Boric acid, saturated	H ₃ BO ₃ , B(OH) ₃	100	20	1.435		B	B	D	A	A	A	A	A		A	
Boric acid, saturated	H ₃ BO ₃ , B(OH) ₃	100	80			B	B	D		A	B	B	A			
Borofluoric acid	HBF ₄	100	20	1.220		D	C		A	A	A	A	A			
Borofluoric acid	HBF ₄	100	80			D	C			A	B	A	A			
Boron trichloride	BCl ₃	100	20	1.430		D				A					A	
Boron triethyl hydrate	(C ₂ H ₅) ₃ B	100	20										A			
Boron trifluoride	BF ₃	100	20						A	A						
Brake fluid		100	20				A	A					D			
Brandy		100	20										A			
Brass, plating solution		100	20				A			A	A	A	A			
Brass, plating solution		100	80				A			A		A				
Brawn		100	20				A									
Brewery dregs (Brewery slop)		100	20				A	A					A	A		
Brine		100	20				A	D	A	A	A	A	A	A		
Brine		100	60				A	D		A	A	B	A			
Brine		100	80				A	D		A	B		A			
Bromic acid, pure	HBr	100	20			D	D	D		A	A	D	A	D		
Bromide, anhydrous	Br ₂	100	20	3.102	0.32	D	D			A	D	D	A	D		
Bromine trifluoride	BrF ₃	100	20			D	B				D	D	D	D		
Bromine water, saturated		100	20			D	B			A	D	D	A	D		
Bromine water, saturated		100	40			D	B			A	D	D	A	D		
Bromine water, saturated		100	80			D	B				D	D		D		
Bromine, aqueous	Br ₂	100	20			D	D	D		A	D	D	A	D		
Bromine, fluid	Br ₂	100	20	3.190		A	D			A	D	D	A	D		
Bromine, vapor	Br ₂	25	20							A	D	D	A	D		
Bromine, vapor	Br ₂	25	80								D	D		D		
Bromine, vapor	Br ₂	100	20													
Bromobenzene	C ₆ H ₅ Br	100	20	1.500		A	A					D	D	A	D	
Bronze, plating solution		100	20				A						A	A		
Bunker oil		100	20			A	A					D	A	A	B	
Butadiene-1,3, gas	CH ₂ =CHCH=CH ₂ , (CH ₂) ₂ (CH) ₂	100	20	0.620	0.3	A	A			A	D	B	A	D		
Butadiene-1,3, gas	CH ₂ =CHCH=CH ₂ , (CH ₂) ₂ (CH) ₂	100	40			A	A			A	D	C	A	D		

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code												
						A	S	C	P	T	E	N	V	U	K			
Butanal (i)	(CH ₃) ₂ CHCHO	100	20	0.790														
Butane (n), gas	C ₄ H ₁₀ , CH ₃ CH ₂ CH ₂ CH ₃	100	20	0.580	0.1	A	A	A	A	A	D	C	A					
Butane diol	HOCH ₂ CH ₂ CH ₂ CH ₂ OH	10	20			A	A		A	A		A	D					
Butter		100	20		100000.00		A	D	A	A	A	A	A	A	A			
Butter milk		100	20				A	D	A			A	A	A				
Butyl acetate (i), pure	CH ₃ COOCH ₂ CH(CH ₃) ₂	100	20	0.870		A	A	A		A	B	D	D	C	A			
Butyl acetate (n), pure	CH ₃ COOC ₄ H ₉ , C ₄ H ₉ CO ₂ CH ₃	100	20	0.883		A	A	A	A	A	B	D	D	C	A			
Butyl acetate (n), pure	CH ₃ COOC ₄ H ₉ , C ₄ H ₉ CO ₂ CH ₃	100	40			B	C	A		A	C	D	D					
Butyl acetate (n), pure	CH ₃ COOC ₄ H ₉ , C ₄ H ₉ CO ₂ CH ₃	100	60			B	C	A		A	D	D	D					
Butyl acetate (n), pure	CH ₃ COOC ₄ H ₉ , C ₄ H ₉ CO ₂ CH ₃	100	80			B	C	A		B	D	D	D					
Butyl acetate (Sec), pure	CH ₃ COOCH(CH ₃)C ₂ H ₅	100	20	0.870		A	A	A		A	B	D	D	C	A			
Butyl acetyl ricinoleate		100	20							A	C		A	D				
Butyl acrylate, pure	CH ₂ =CHCOOC ₄ H ₉	100	20	0.900					A	A	A	D	D					
Butyl acrylate, pure	CH ₂ =CHCOOC ₄ H ₉	100	40							A	A	D	D					
Butyl acrylate, pure	CH ₂ =CHCOOC ₄ H ₉	100	60							A		D	D					
Butyl acrylate, pure	CH ₂ =CHCOOC ₄ H ₉	100	80									D	D					
Butyl acrylate, saturated	CH ₂ =CHCOOC ₄ H ₉	100	20								A	D	D					
Butyl alcohol (Butanol), pure	C ₄ H ₉ OH	100	20	0.810	1.2	B	A	D	A	A	A	B	B	D				
Butyl alcohol (Butanol), pure	C ₄ H ₉ OH	100	60			B	A	D	A	A	A	B	C	D				
Butyl alcohol (Butanol), pure	C ₄ H ₉ OH	100	80			B	A	D		A	A			D				
Butyl amine, saturated	C ₄ H ₉ NH ₂	100	20	0.750		A	A			A	D	A	A	D				
Butyl amine, saturated	C ₄ H ₉ NH ₂	100	40			A	A			A	D			D				
Butyl benzoate		100	20			B	B			A	B		A					
Butyl bromid, pure	C ₆ H ₉ -Br	100	20	1.269						A								
Butyl carbitol	C ₄ H ₉ OCH ₂ CH ₂ OCH ₂ CH ₂ OH	100	20	0.960						A	A	A	A					
Butyl cellosolve, pure	C ₄ H ₉ OCH ₂ CH ₂ OH	100	20	0.900					A	A		D	D	D				
Butyl cellosolve, pure	C ₄ H ₉ OCH ₂ CH ₂ OH	100	60							A		D	D	D				
Butyl cellosolve, pure	C ₄ H ₉ OCH ₂ CH ₂ OH	100	80							A		D	D	D				
Butyl chloride	C ₄ H ₁₀ -nCl	100	20	0.890		A	D			A				D				
Butyl diol		100	20							A	A	A	A					
Butyl ether	CH ₃ COOC ₄ H ₉	100	20	0.880						A	D	B	D					
Butyl ether	CH ₃ COOC ₄ H ₉	100	60							A	D		D					
Butyl ether	CH ₃ COOC ₄ H ₉	100	80								D		D					
Butyl glycol	C ₄ H ₉ OCH ₂ CH ₂ OH, C ₆ H ₁₄ O ₂	100	20	0.900		A	A		A									
Butyl glycolate	CH ₂ OHCOOC ₄ H ₉	100	20	1.010						A								
Butyl hydroperoxide	(CH ₃) ₃ COOH	100	20	0.860														

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm ³)	Visc (cSt)	Material code															
						A	S	C	P	T	E	N	V	U	K						
Butyl lithium	C4H9Li	100	20																		
Butyl mercaptan, pure	C4H9SH	100	20	0.834						A				D	A						
Butyl oleate		100	20										C		A						
Butyl peracetate	CH3CO(O2)C(CH3)3	100	20	0.920																	
Butyl perbenzoate	C6H5COOOC(CH3)3	100	20	1.030																	
Butyl phenol	HOC6H4C(CH3)3	100	20	0.908		A	A			A	A			D	D						
Butyl phthalate		100	20			A	A			A	A	B		D	B						
Butyl phthalate		100	40			A	A			A	A			D	B						
Butyl phthalate		100	60			A	A							D	D						
Butyl phthalate		100	80			A	A							D	D						
Butyl stearate, pure		100	20			B	B			A	C	B	A	D							
Butyl stearate, pure		100	60			B	B			A		C	A	D							
Butylene	C4H8	100	20	0.620		A	A			A	D	A	A	D							
Butylene	C4H8	100	80			A	A			A	D	A	B	D							
Butylene glycol	HO-CH2-CH=CH-CH2-OH	100	20	1.010																D	
Butyraldehyde (n)	C3H7CHO, CH3(CH2)2CHO	100	20	0.800			D	A				C	C	C	C						
Butyric acid, pure	C3H7COOH, C4H8O2	20	20	0.880		A	B			A	A	A	D	A							
Butyric acid, pure	C3H7COOH, C4H8O2	100	20	0.960		A	B	D		A	A	B	D	B						A	
Butyric acid, pure	C3H7COOH, C4H8O2	100	40				B	D		A	A		D	C							
Butyric acid, pure	C3H7COOH, C4H8O2	100	60				B	D		A			D	D							
Cadmium chloride	CdCl2	50	20	1.680		D	A			A											
Cadmium nitrate	Cd(NO3)2	50	20	1.640																	
Cadmium sulphate	CdSO4	40	20	1.550		A	A			A										A	
Cadmium, plating solution		100	20									A	A	A	A						
Cadmium, plating solution		100	80									A		A							
Caffeine citrate		100	20									A									
Calcium	Ca	100	20																		
Calcium acetate, saturated	Ca(C2H3O2)2+2H2O	100	20			C	B			A	A	A	A	A							
Calcium acetate, saturated	Ca(C2H3O2)2+2H2O	100	80			C	B			A	A		A								
Calcium bisulphate	Ca(HSO4)2	100	20				A	D												A	
Calcium bisulphide, saturated		100	20				B			A	D	A	A	A							
Calcium bisulphide, saturated		100	40				B			A	D	B	A								
Calcium bisulphide, saturated		100	80				B			A	D		B								
Calcium bisulphide, saturated	Ca(HSO3)2	25	25	1.040		A	B			A	A	A	A	A							
Calcium bisulphide, saturated	Ca(HSO3)2	100	20	1.400		A	B			A	B	A	A	A	A						A
Calcium bromide	CaBr2	50	20	1.640																	

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						A	S	C	P	T	E	N	V	U	K					
Calcium carbide	CaC2	100	20	2.220					A											
Calcium carbonate, saturated	CaCO3	100	20	2.6-2.8			A		A	A	A	A	A							
Calcium carbonate, saturated	CaCO3	100	60				A		A	A	A	B	A							
Calcium chlorate, saturated	Ca(ClO3)2	100	20	2.711			A		A	A	A	C	A							A
Calcium chloride	CaCl2+6H2O, CaCl2	40	20	1.400		D	B	C		A	A	A	A	A	A					A
Calcium chloride, saturated	CaCl2+6H2O, CaCl2	100	20			D	B	C	A	A	A	A	A	A						
Calcium chloride, saturated	CaCl2+6H2O, CaCl2	100	60			D	B	C		A	A	A	A							
Calcium cyanide	Ca(CN)2	100	20																	
Calcium hydroxide	Ca(OH)2	0,15	20	1.000		D	A	A		A	A	A	A	A	A					A
Calcium hydroxide	Ca(OH)2	5	25	1.060		D	A	A		A	A	A	A	A						
Calcium hydroxide, saturated	Ca(OH)2	100	20			D	A	A	A	A	A	A	A	A						
Calcium hydroxide, saturated	Ca(OH)2	100	80			D	A	A		A	A	C	A							
Calcium hypochlorite, saturated	Ca(ClO)2	100	20	2.100		D	D	D		A	B	C	A	D						A
Calcium hypochlorite, saturated	Ca(ClO)2	100	60			D	D	D		A			A	D						
Calcium hypochlorite, saturated	Ca(ClO)2	100	80			D	D	D		D									D	
Calcium nitrate	Ca(NO3)2	50	20	1.480		A	A		A	A	A	A	A	A	A					A
Calcium nitrate, saturated	Ca(NO3)2	100	20			B	B			A	A	A	A	A						
Calcium oxide (Burnt lime)	CaO	100	20	3.370			A	A	A		A	A	A							
Calcium permanganate	Ca(MnO4)2	100	20			A				A										
Calcium sulphate	CaSO4	50	20	1.490		A	A	A		A	A	A	A							A
Calcium sulphate, saturated	CaSO4	100	20				B	A		A	A	A	A							
Calcium sulphate, saturated	CaSO4	100	80				B	A		A	A	B	A							
Calcium sulphide, saturated	CaS	100	20	2.800		A	A			A	A	A	A	A						
Calcium sulphide, saturated	CaS	100	80			A	A			A	A	B	A							
Calcium sulphite	CaSO3	100	20			A	A			A									A	A
Calgon (Sodium hexametaphosphate)	(NaPO3)6	100	20				A	D				A	A							
Campher	C10H16O	100	20	0.990			A			A		A	D							
Cane sugar liquor	C12H22O11	100	20	1.588		A	A	A	A	A	A	A	A	A	D					
Cane sugar liquor	C12H22O11	100	80			A	A			A	A	B	A	D						
Capric acid-n	CH3(CH2)8CO2H	100	20			A	A			A										
Capronic acid	CH3(CH2)4CO2H	100	20	0.930			A			A										A
Capryl alcohol	CH3CHOH(CH2)5CH3	100	20	0.820		A	A			A										
Caprylic acid, pure	CH3(CH2)6CO2H	100	20	0.920		A				A										
Carbamate (Carbamido)		100	20									C	C	A	D					
Carbamide (Urea)	(H2N)CO(NH2)	50	20	1.115																
Carbamide (Urea)	(H2N)CO(NH2)	100	20	1.320		A	A	A		A	A	A	A							



Chemical guide

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code															
						A	S	C	P	T	E	N	V	U	K						
Carbaryl	C10H7OCONHCH3	100	20																		
Carbide slurry		100	20																		
Carbitol	C2H5OCH2CH2OCH2CH2OH	100	20	0.990		B	B			A	A	A	A	D							
Carbitol	C2H5OCH2CH2OCH2CH2OH	100	40			B	B			A		C	B	D							
Carbitol	C2H5OCH2CH2OCH2CH2OH	100	60			B	B			A			C	D							
Carbon dioxide, dry	CO2	100	20			A	A	D		A	A	A	A	A							
Carbon dioxide, dry	CO2	100	80			A	A	D		A	A	B	A								
Carbon dioxide, wet	CO2	100	20			A	A	D		A	A	A	A	A							
Carbon dioxide, wet	CO2	100	80			A	A	D		A	A	B	A								
Carbon disulphide, pure	CS2	100	20	1.260		A	A	A		A	D	C	A	C							
Carbon disulphide, pure	CS2	100	40			A	A	A		A	D	C	B	C							
Carbon disulphide, pure	CS2	100	60			A	A	A		A	D	D	C								
Carbon disulphide, pure	CS2	100	80			A	A	A		A	D	D	D								
Carbon monoxide, gas	CO	100	20			A	A	D		A	A	A	A	A							
Carbon monoxide, gas	CO	100	80			A	A	D		A	A	B	A								
Carbon tetrachloride, pure	CCl4	100	20	1.590	0.6	B	A	C		A	D	D	B	C							
Carbon tetrachloride, pure	CCl4	100	40			B	A	C		A	D	D		C							
Carbonated water		100	20				A					A	A								
Carbonic acid, saturated	H2CO3	100	20			D	A	D	A	A	A	A	A	A	A						
Carbonic acid, saturated	H2CO3	100	80			D	A	D		A	A	B	A								
Carnallite lye	MgCl2+KCl	100	20			D	A			A										A	
Casein		100	20							A	A		A								
Castor oil, pure		100	20	0.960	600.0	A	A	A	A	A	A	A	A								
Caustic potash (Potassium hydroxide)	KOH	20	20	1.190		D	B	C		A	A	B	D	B	A						
Caustic potash (Potassium hydroxide)	KOH	25	20			D	B	C		A	A	B	D	B	A						
Caustic potash (Potassium hydroxide)	KOH	25	60			D	B	C		A	A	C	D		A						
Caustic potash (Potassium hydroxide)	KOH	25	80			D	B	C		A	A	D	D		A]						
Caustic potash (Potassium hydroxide)	KOH	30	20	1.290		D	B	C	A	A	A	B	D	B	A						
Caustic potash (Potassium hydroxide)	KOH	45	20	1.470		D	B	C		A	A	D	D	B	A						
Caustic potash (Potassium hydroxide)	KOH	50	25	1.510		D	B	C	A	A	A	D	D	B	A						
Caustic potash (Potassium hydroxide)	KOH	60	20	1.630	1.630	D	B	C		A	A	D	D	B	A						
Caustic potash (Potassium hydroxide)	KOH	100	20	2.040																	
Cellosolve (Ethyl glycol)	C2H5OCH2CH2OH, C4H10O2	100	20	0.930		B	B			A	B	C	C	D							
Cellosolve (Ethyl glycol)	C2H5OCH2CH2OH, C4H10O2	100	40			B	B			A		D	D	D							
Cellosolve (Ethyl glycol)	C2H5OCH2CH2OH, C4H10O2	100	60			B	B			A		D	D	D							
Cellosolve (Ethyl glycol)	C2H5OCH2CH2OH, C4H10O2	100	80			B	B			A		D	D	D							

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code											
						A	S	C	P	T	E	N	V	U	K		
Cellosolve acetate (Ethyl glycol acetate)	CH3COOC2H4OC2H5	100	20	0.970									D	D	D		
Cellulose acetate		100	20			B	A										
Cellulose ether		100	20				A			A							
Cellulose glue		100	20				A						A	A			
Cellulose nitrate	C6H7O2(OH)2(ONO2)	100	20	1.660													
Cetyl alcohol (Hexadecanol)	CH3(CH2)15OH	100	20	0.800		A	A		A								
Chlor trisodium phosphate		100	20				A						A	A			
Chloral	CCl3CHO	100	20	1.520					A								
Chloral hydrate	CCl3-CH(OH)2	100	20	1.9		D			A	A			D	D			
Chlorepoxypropane	OCH2CHCH2Cl	100	20										D	D			
Chlorethanoic sulfonic acid-B	ClCH2CH2SO3H	100	20														
Chlorethanol (Ethylene chlorohydrin)	ClCH2-CH2OH	100	20													D	
Chloric acid	HClO3	10	20	1.28		D	D		A	A			D	A			A
Chloric acid	HClO3	20	20	1.28		D	D		A	A			D	A			
Chloride of lime	Ca(ClO)2+4H2O	100	20	2.350		D	A	D	A	A			D	A			
Chloride of lime	CaOCl2	100	20			D	A	D		A			D	A			
Chlorinated glue		100	20				A	D				B	C	A			
Chlorinated hydrocarbons		100	20										A	D			
Chlorinated solvents		100	20									D	D	B			
Chlorine dioxide, pure	ClO2	5	20			D	D			A							
Chlorine dioxide, pure	ClO2	100	20	3.090		D	D			A	C	D	D				
Chlorine dioxide, pure	ClO2	100	40			D	D			A	C	D	D				
Chlorine lye		100	20				A						C	A			
Chlorine trifluoride		100	20			A	A					D	D	D	D		
Chlorine water	Cl2+H2O	100	20			D	D			A	B	D	C	D	A		
Chlorine water	Cl2+H2O	100	40			D	D			A	C	D	D	D			
Chlorine water	Cl2+H2O	100	60			D	D			A		D	D	D			
Chlorine, dry	Cl2	100	20	1.410	0.4	A	A	C		A	B	D	B	D	A		
Chlorine, dry	Cl2	100	80			A	A	C		A		D		D			
Chlorine, humid	Cl2	100	20	1.40	0.4	D	D	C		A	D	D	D		A		
Chlorine, humid	Cl2	100	60			D	D	C		A	D	D	D				
Chlorine, humid	Cl2	100	80			D	D	C		A	D	D	D				
Chlorine, humid gas	Cl2	97	20							A	D	D	C				
Chlorine, liquid	Cl2	100	20													D	
Chloroacetic acid (Monochloroacetic acid)	CH2ClCO2H	50	20	1.40		D	D	D	A	A	C	D	B	D			
Chloroacetic acid (Monochloroacetic acid)	CH2ClCO2H	50	40	1.40		D	D	D	A	A		D	D				

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code										
						A	S	C	P	T	E	N	V	U	K	
Chloroacetic acid (Monochloroacetic acid)	CH2CICO2H	50	60			D	D	D	A	A		D	D			
Chloroacetic acid (Monochloroacetic acid)	CH2CICO2H	85	20	1.360		D	D	D	A	A		D			A	
Chloroacetic acid (Monochloroacetic acid)	CH2CICO2H	98	20	1.360		D	D	D	A	A		D	A		A	
Chloroacetic acid (Monochloroacetic acid)	CH2CICO2H	100	20	1.580		D	D	D	A	A	B	D	D			
Chloroacetone	C3H5CIO, CH2CICOCH3	100	20	1.162		D	B	D			A	D	D	D		
Chloroacetyl chloride	CH2CICOCl	100	20													
Chloroamine	NH2Cl	100	20													
Chloroamine T	CH3C6H4SO2NCINa	100	20			D				A		A	D		A	
Chlorobenzene, pure	C6H5Cl	100	20	1.110		A	A	D		A	D	D	A	D		
Chlorobenzene, pure	C6H5Cl	100	40			A	A	D		A	D	D		D		
Chlorobenzene, pure	C6H5Cl	100	60			A	A	D		A	D	D		D		
Chlorobenzene, pure	C6H5Cl	100	80			A	A	D		A	D	D		D		
Chlorobromomethane	ClCH2Br	100	20			D	A	D		A			D	D		
Chlorobutadiene	CH2CHCClCH2	100	20				A	D			D	D	A	D		
Chlorocresol	C6H3ClOHCH3	100	20				A									
Chlorodane	C12H8Cl6	100	20													
Chlorodiphenyl (Clophene)		100	20			A	A					D	A			
Chlorododecane		100	20									D	A	D		
Chloroform, (Trichloromethane), pure	CHCl3	100	20	1.483	0.4	D	A	D		A	D	D	B	C	A	
Chloroform, (Trichloromethane), pure	CHCl3	100	40			D	A	D		A	D	D		C		
Chloroform, (Trichloromethane), pure	CHCl3	100	60			D	A	D		A	D	D				
Chloroform, (Trichloromethane), pure	CHCl3	100	80			D	A	D		A	D	D				
Chlorohydrin	C3H7ClO2	100	20	1.320			A			A						
Chloromethane (Methyl chloride)	CH3Cl	100	20											D		
Chloromethyl	CH3Cl	100	20	0.920		D	A			A		D	A			
Chloronaphtalene	C10H7Cl	100	20	1.190		A	A				D	D	A			
Chloronitrobenzene	C6H4NO2Cl	50	20													
Chloronitrobenzene	C6H4NO2Cl	100	20	1.370												
Chloropicrin	CCl3NO2	100	20	1.660			A	A				D	D			
Chlorosulphonic acid, pure	HOCISO2, HClSO3	100	20	1.766	4.0	D	D	D		A	D	D	D	D	A	
Chlorosulphonic acid, pure	HOCISO2, HClSO3	100	25	1.280		D	D	D		A	D	D	D	D	A	
Chlorosulphonic acid, pure	HOCISO2, HClSO3	100	40			D	D	D		A	D	D	D	D		
Chlorotoluene	Cl-C6H4-CH3	100	20	1.080		A	A			A		D	A	D		
Chlorox (Bleach)		100	20				A	D			B	B	A	D		
Chocolate, chocolate syrup		100	20				A	D				A	A			
Chrome alum	KCr(SO4)2	50	20	1.620		D	A			A	A	A	A			



Chemical guide

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code														
						A	S	C	P	T	E	N	V	U	K					
Chrome alum, saturated	KCr(SO4)2	100	20			D	A			A	A	A	A							
Chrome alum, saturated	KCr(SO4)2	100	80			D	A			A	B	B	A							
Chrome, plating solution		100	20				B			A	C	A	A	D						
Chrome, plating solution		100	80				B			A	C	A	A	D						
Chromic acid	CrO3	5	20			A		D		A	A	D	A	D						
Chromic acid	CrO3	10	20	2.700		A		D		A	B	D	A	D	A					
Chromic acid	CrO3	10	40			A		D		A	C	D	B	D						
Chromic acid	CrO3	10	60			A		D		A	D	D	B	D						
Chromic acid	CrO3	20	20			A		D	A	A	B	D	B	D						
Chromic acid	CrO3	20	40			A		D	A	A	D	D	B	D						
Chromic acid	CrO3	20	80			A		D		A	D	D	C	D						
Chromic acid	CrO3	25	20			A		D		A	B	D	B	D	A					
Chromic acid	CrO3	40	20			B		D		A	D	D	D	D						
Chromic acid	CrO3	40	40			B		D		A	D	D	D	D						
Chromic acid	CrO3	40	60			B		D		A	D	D	D	D						
Chromic acid	CrO3	50	20			B		D		A	D	D	D	D						
Chromic acid	CrO3	50	40			B		D		A	D	D	D	D						
Chromic acid	CrO3	50	60			B		D		A	D	D	D	D						
Chromic acid	CrO3	50	80			B		D		A	D	D	D	D						
Chromic acid	CrO3	100	20																	D
Chromic acid, powder	CrO3	100	20	2.700																D
Chromic fluoride	CrF3+4H2O	100	20	3.800																
Chromium sulphate	Cr(SO4)3	100	20			A	A			A										
Cider		100	20				A	D				A	A							
Cinnamon oil		100	20				A	D												
Citric acid	C3H4(OH)(COOH)3, H8C6O7+H2O	10	20			B	A	D		A	A	A	A	A						
Citric acid	C3H4(OH)(COOH)3, H8C6O7+H2O	10	60			B	A	D		A	A	A	A							
Citric acid	C3H4(OH)(COOH)3, H8C6O7+H2O	20	20			A	A	D		A	A	A	A	A	A					A
Citric acid	C3H4(OH)(COOH)3, H8C6O7+H2O	50	20	1.220		A	A	D	A	A	A	A	A	A	A					A
Citric acid	C3H4(OH)(COOH)3, H8C6O7+H2O	100	25	1.550		B	A	D		A	A	A	A	A						
Citric oil		100	20				A	D		A		D	A							
Clove oil		100	20				A	D				A								
Cobalt chloride		100	20									C	A		D					
Cocoa extrat		100	20				A						A	A						
Coconut fat alcohol		100	20									A		A	A					
Coconut oil		100	20	0.93	60.0	B	A	A	A	A	B	A	A							

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code															
						A	S	C	P	T	E	N	V	U	K						
Cod liver oil (Fish liver oil)		100	20	0.980	35.0	A	A	D	A	A	A	A	A								
Coffee		100	20			A	A						A	A	D						
Coke oven gas		100	20			A	A			A	A	B	A	D							
Coke oven gas		100	40			A	A			A	A	C	A	D							
Colza oil		100	20		400.0		A	A					A	A							
Cooking salt (Sodium chloride)		100	20	2.164																	
Copper (I) chloride, saturated	CuCl	100	20			D	D	D	A	A	A		A	A	A						
Copper (I) cyanide, saturated	CuCN	100	20	2.920		D	A	D	A	A	A	A	A	A							
Copper (I) cyanide, saturated	CuCN	100	80			D	A	D		A	A	A	A								
Copper (II) chloride, saturated	CuCl2+2H2O	10	20	1.090		D	D	D		A	A	A	A	A							
Copper (II) chloride, saturated	CuCl2+2H2O	20	20	1.210		D	D	D		A	A	A	A	A	A						
Copper (II) chloride, saturated	CuCl2+2H2O	100	20	3.390		D	D	D	A	A	A	A	A	A							
Copper (II) cyanide, saturated	Cu(CN)2	100	20			D	A	D		A	A	A	A	A							
Copper (II) cyanide, saturated	Cu(CN)2	100	80			D	A	D		A	A	A	A	A							
Copper acetate, saturated	Cu(C2H3O2)2, CH3CO2)2Cu	50	20			D				A	A	A	A	D	A						
Copper acetate, saturated	Cu(C2H3O2)2, CH3CO2)2Cu	100	20			D	D			A	A	A	A	D							
Copper arsenide	Cu3As	100	20																		
Copper borofluoride	CuBF6+4H2O	100	20				D	D		A	A	A	A								
Copper carbonate, saturated		100	20							A											
Copper fluoborate	CuBF6+4H2O	100	20				D	D					B	A							
Copper fluoride, saturated		100	20							A											
Copper fluoride, saturated		100	60							A											
Copper nitrate	Cu(NO3)2+6H2O	25	20	1.250			A			A	A	D	A								
Copper nitrate	Cu(NO3)2+6H2O	100	20	2.070		D	A			A	A	A	A								
Copper nitrate	Cu(NO3)2+6H2O	100	60			D	A			A	A	A	A								
Copper nitrate	Cu(NO3)2+6H2O	100	80			D	A			A	A	B	A								
Copper salts		100	20																		
Copper sulphate, saturated	CuSO4+5H2O	10	20	1.160		D	A	D		A	A	A	A								
Copper sulphate, saturated	CuSO4+5H2O	18	20	1.210		D	A	D		A	A	A	A							A	
Copper sulphate, saturated	CuSO4+5H2O	100	20	3.610		D	A	D	A	A	A	A	A							A	
Copper, plating solution		100	20				A			A	A	A	A								
Corn oil		100	20	0.920		A	A			A	A	B	A	A							
Corn syrup		100	20	1.4	10700.0						A	A	A	A							
Corn syrup		100	80								A	A	B	A							
Cottonseed oil		100	20			A	A	A	A	A	A	A	A								
Cottonseed oil		100	40	0.92	20.0	A	A	A	A	A	B	A	A								

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code										
						A	S	C	P	T	E	N	V	U	K	
Cottonseed oil		100	80			A	A	A		A	C	A	B			
Cream		100	20				A	D				A	A			
Creosote		100	20		20-55				A	A	D	A	A			
Creosote oil		100	20			B	A	A		A	D	A	A			
Cresol, pure	C6H4OHCH3, C6H4(CH3)OH	90	20	1.047	4-20	A	A	C	A	A	D	D	A	D	A	
Cresol, pure	C6H4OHCH3, C6H4(CH3)OH	100	20	1.040		A	A	C	A	A	D	D	A	D	A	
Cresol, pure	C6H4OHCH3, C6H4(CH3)OH	100	60			A	A	C		A	D	D	B	D		
Cresyldiphenyl phosphate		100	20													
Cresylic acid	CH3C6H4OH	100	20	1.040		B	A	C		A	D	D	A	D		
Croton acid	CH3CH=CHCOOH	100	20	1.020												
Crotonaldehyde, pure	CH3CH=CHCHO	100	20	0.853		A	A		A	A	B	C	A			
Crotonaldehyde, pure	CH3CH=CHCHO	100	60			A	A			A						
Crude oil		100	20			A	A			A	D	B	A			
Crude oil		100	60			A	A			A	D					
Cryolite	Na3AlF6	100	20							A						
Cryolite	Na3AlF6	100	60							A						
Cumene (Isopropyl benzene)	C6H5CHH(CH3)2, C9H12	100	20	0.862	1.0	B	B				D		A			
Cumene hydroperoxide	C6H5C(CH3)2OOH	100	20	1.060												
Cupric (II) sulphate, saturated		100	20							A	A	A	A			
Cupric fluoride, saturated		100	20							A	A	A	A			
Cupric fluoride, saturated		100	80							A						
Cutting oil		100	20				A	A				A	A			
Cutting oil containing sulfur		100	20				A	A				A	A			
Cutting oil water soluble		100	20				A	A					A			
Cyanbromide	BrCN	100	20	2.020												
Cyanic acid	CNOH	100	20				A	D				C				
Cyanoacetic acid	CH2CNCO2H, CNCH2COOH	100	20				A			A						
Cyanogen	(CN)2	100	20													
Cyclohexane, pure	C6H12, (CH2)6	100	20	0.779	1.3	A	A	A	A	A	D	B	A	B		
Cyclohexane, pure	C6H12, (CH2)6	100	40			A	A	A	A	A	D		A	B		
Cyclohexanol, pure	C6H11OH, C6H12O	100	20	0.960	70.0	C	A		A	A	B	C	A			
Cyclohexanol, pure	C6H11OH, C6H12O	100	40			C	A		A	A			A			
Cyclohexanol, pure	C6H11OH, C6H12O	100	60			C	A		A	A						
Cyclohexanol, pure	C6H11OH, C6H12O	100	80			C	A			A						
Cyclohexanone (Anon), pure	C6H10O, (CH2)5CO	100	20	0.950	5.0	A	A		A	A	C	D	D	D		
Cyclohexanone (Anon), pure	C6H10O, (CH2)5CO	100	40			A	A		A	A		D	D	D		

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						A	S	C	P	T	E	N	V	U	K	
Cyclohexanone (Anon), pure	C6H10O, (CH2)5CO	100	60			A	A			A		D	D	D		
Cyclohexanone (Anon), pure	C6H10O, (CH2)5CO	100	80			A	A			A		D	D	D		
Cyclohexene	C6H10	100	20	0.810												
Cyclohexylamine	C6H11NH2	100	20	0.860												
Cyclopentane	C5H10	100	20	0.745	0.6											
Cyclopropane	C3H6	100	20													
Decaborane	B10H14	100	20	0.940												
Decalin (Decahydronaphthalene), pure	C10H18	100	20	0.880		A			A	A	D	D	A	D		
Decane (Capric acid), pure	CH3(CH2)8CO2H	100	20							A	D	D	A	B		
Denatured alcohol		100	20			A	A			A	A	A	A	D		
Densodrin W		100	20									A				
Detergent solutions		100	20				A			A	A	A	A	A		
Detergents, synthetic		100	20			A	A		A	A	A	A	A	A		
Dextrin, saturated	(C6H10O5)-n	100	20			A	A			A	A	A	A			
Dextrin, saturated	(C6H10O5)-n	100	80			A	A			A	A	B	A			
Dextrose	C6H12O6	100	20			A	A		A	A	A	A	A			
Dextrose	C6H12O6	100	80			A	A			A	A	B	A			
Diacetone alcohol, pure	(CH3)2COHCH2COCH3	100	20	0.940		A	A	A		A	A	D	D	B		
Diacetone alcohol, pure	(CH3)2COHCH2COCH3	100	40			A	A	A		A		D	D	B		
Diacetone alcohol, pure	(CH3)2COHCH2COCH3	100	60			A	A	A		A		D	D			
Diacetone alcohol, pure	(CH3)2COHCH2COCH3	100	80			A	A	A		A		D	D			
Diacetone, pure	(CH3)2C(OH)CH2COCH3	100	20	0.930		A	A			A	B	A	D	B		
Diamylamine	(C5H11)2NH	100	20	0.780												
Diazo salt solution		100	20			D	A			A						
Dibenzyl ether, pure	(C6H5CH2)2O	100	20			B	A	D		A	C	D		B		
Dibenzyl ether, pure	(C6H5CH2)2O	100	40			B	A	D		A		D		B		
Dibenzyl ether, pure	(C6H5CH2)2O	100	60			B	A	D		A		D				
Dibenzyl ether, pure	(C6H5CH2)2O	100	80			B	A	D		A		D				
Dibenzyl sebecate		100	20								C		B	D		
Diborane	B2H6	100	20	0.460												
Dibutyl amine, pure		100	20							A	D	D	D			
Dibutyl amine, pure		100	40							A	D	D	D			
Dibutyl amine, pure		100	60							A	D	D	D			
Dibutyl aniline	C6H5N(C4H9)2	100	20	0.940												
Dibutyl ether, pure	C8H18O, CH3(CH2)3O(CH2)3CH3	100	20	0.770		B	A	D		A	D	B	D	B		
Dibutyl ether, pure	C8H18O, CH3(CH2)3O(CH2)3CH3	100	40			B	A	D		A	D		D	B		

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code										
						A	S	C	P	T	E	N	V	U	K	
Dibutyl ether, pure	C8H18O, CH3(CH2)3O(CH2)3CH3	100	60			B	A	D		A	D		D			
Dibutyl ether, pure	C8H18O, CH3(CH2)3O(CH2)3CH3	100	80			B	A	D		A	D		D			
Dibutyl peroxide	(CH3)3COOC(CH3)3	100	20	0.790												
Dibutyl phthalate, pure	C6H4(CO2C4H9)2	100	20	1.050		A	A		A	A	A	D	B	C		
Dibutyl phthalate, pure	C6H4(CO2C4H9)2	100	40			A	A		A	A	A	D		C		
Dibutyl phthalate, pure	C6H4(CO2C4H9)2	100	60			A	A		A		D					
Dibutyl phthalate, pure	C6H4(CO2C4H9)2	100	80			A	A		A		D					
Dibutyl sebacate	C8H16(COOC4H9)2	100	20	0.935			A		A	A	B	D	C	D		
Dibutyl sebacate	C8H16(COOC4H9)2	100	40				A		A		D		D			
Dibutyl sebacate	C8H16(COOC4H9)2	100	60				A		A		D		D			
Dibutyl sebacate	C8H16(COOC4H9)2	100	80				A		A		D		D			
Dichlorodifluormethane (Freon 12)	CCl2F2	100	20	1.320												
Dichlorethane (Ethylene chloride)	CH2Cl-CH2Cl	100	20	1.180												
Dichloroacetic acid	CHCl2CO2H, CHCl2-COOH	50	20							A		D	D			
Dichloroacetic acid	CHCl2CO2H, CHCl2-COOH	100	20	1.560						A		D	D			
Dichloroacetic acid methyl ester	Cl2CHOOCH3	100	20							A		D	D			
Dichloroaniline	NH2C6H3Cl2	100	20													
Dichlorobenzene, pure	C6H4Cl2	100	20	1.320		B	B			A	D	D	B	D		
Dichlorobenzene, pure	C6H4Cl2	100	80			B	B			A	D	D		D		
Dichlorobenzene-O,-P	C6H4Cl2	100	20	1.310		B	B			A	D	D	B	D		
Dichlorobenzene-O,-P	C6H4Cl2	100	80			B	B			A	D	D		D		
Dichloroethylene	CH2CCl2, C2H2Cl2	100	20	1.220		B				A	D	D	A			
Dichlorohydrine	(CH2Cl)2CHOH	100	25	1.360												
Dichloroisopropylether, pure		100	20										D	C	B	
Dichloroisopropylether, pure		100	40										D	C	B	
Dichloroisopropylether, pure		100	60										D	C		
Dichloroisopropylether, pure		100	80										D	C		
Dichlorophenolacetic acid	Cl2C6H3OCH2COOH															
Dichloropropene	CHClCHCH2Cl	100	20	1.230												
Dicyclohexylamine		100	20									D	C		D	
Diesel oil		100	25	0.830	5.0	A	A	A		A	D	B	A	B		
Diethanolamine	HN(CH2CH2OH)2, (HOC2H4)2NH	100	20	1.100	80-180	A	A		A	A		D	D			
Diethyl aluminiumchloride	(C2H5)2AlCl	100	20	0.970												
Diethyl amine, pure	(C2H5)2NH, HN(C2H5)2	100	20	0.710	0.5	C	A		A	A	A	D	D	C		
Diethyl amine, pure	(C2H5)2NH, HN(C2H5)2	100	40			C	A		A		D	D	C			
Diethyl amine, pure	(C2H5)2NH, HN(C2H5)2	100	60			C	A		A		D	D				

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm ³)	Visc (cSt)	Material code														
						A	S	C	P	T	E	N	V	U	K					
Diethyl benzene-1,2	C6H4(C2H5)2	100	20	0.860						A	D	D	A	D						
Diethyl benzene-1,3	C6H4(C2H5)2	100	20	0.860						A	D	D	A	D						
Diethyl benzene-1,4	C6H4(C2H5)2	100	20	0.860						A	D	D	A	D						
Diethyl carbonate	(C2H5O)2CO	100	20	0.980																
Diethyl ether, pure	(C2H5)2O, C2H5OC2H5	100	20	0.710	1.0	B	A			A	C	C	C	A						
Diethyl ether, pure	(C2H5)2O, C2H5OC2H5	100	40			B	A			A										A
Diethyl sebecate		100	20			A	A					C	D	B	D					
Diethyl sulphate	SO2(OC2H5)2	100	20	1.180																
Diethylene glycol	O(CH2CH2OH)2	100	20	1.120		A	A	A		A	A	A	A	D						
Diethylene triamine	NH2CH2CH2NHCH2CH2NH2	100	20	0.960																
Diethylene triamine	NH2CH2CH2NHCH2CH2NH2	100	40																	
Diethylene triamine	NH2CH2CH2NHCH2CH2NH2	100	60																	
Diethylene triamine	NH2CH2CH2NHCH2CH2NH2	100	80																	
Diglycolic acid	(CO2HCH2)2O	30	20			A	A			A	A	A	D	A						
Diglycolic acid, saturated	(CO2HCH2)2O	100	20							A	A	A	A	A						
Diisobutyl ketone, pure	C9H18O	100	20	0.805						A	A	D	B	D	D					
Diisobutyl ketone, pure	C9H18O	100	40									A	D		D	D				
Diisobutyl ketone, pure	C9H18O	100	80									A	D		D	D				
Diisobutylene (Octene), pure	(CH3)3C=CH2-C(CH3)=CH2, C8H16	100	15	0.720		B	B					A	D	A	A	D				
Diisobutylene (Octene), pure	(CH3)3C=CH2-C(CH3)=CH2, C8H16	100	20			B	B					A	D	A	A	D				
Diisobutylene (Octene), pure	(CH3)3C=CH2-C(CH3)=CH2, C8H16	100	80			B	B					A	D			D				
Diisopropyl amine	[(CH3)2CH]2NH	100	20	0.718																
Diisopropyl benzene	[(CH3)2CH2]2C6H4	100	25	0.860										D	D	A				
Diisopropyl ketone, pure	(CH3)2CHCOCH(CH3)2	100	20				A				A	B	D	D	D					
Diisopropyl ketone, pure	(CH3)2CHCOCH(CH3)2	100	40				A							D	D	D				
Diisopropyl peroxydicarbonate	(CH3)2CHOCOOCCOCH(CH3)2	100	20	1.080																
Dimethyl amine, aqueous	(CH3)2NH+H2O	40	25	0.890																
Dimethyl amine, pure	(CH3)2NH	100	20	0.650								A	A	A	D	D				
Dimethyl amine, pure	(CH3)2NH	100	40	0.687								A	A		D	D				
Dimethyl amine, pure	(CH3)2NH	100	60									A			D	D				
Dimethyl aniline, pure	C8H11N	100	20	0.957										D	D	D				
Dimethyl aniline, pure	C8H11N	100	40											D	D	D				
Dimethyl aniline, pure	C8H11N	100	60											D	D	D				
Dimethyl ethanolamine	(CH3)2NC2H4OH	100	20	0.890																
Dimethyl ether	CH3OCH3	100	20	0.670		A	A					A		D	A					A
Dimethyl formamide, pure	HCON(CH3)2, (CH3)2NCHO	100	20	0.950	10.0	A	A			A	A	B	D	D						

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code															
						A	S	C	P	T	E	N	V	U	K						
Dimethyl hydrazineunsymmetrical	(CH ₃) ₂ NNH ₂	100	25	0.780																	
Dimethyl phthalate	H ₃ C-COO-C ₆ H ₄ -COO-CH ₃	100	20	1.191		A	A		A	A	B	D	B	C							
Dimethyl phthalate	H ₃ C-COO-C ₆ H ₄ -COO-CH ₃	100	40			A	A		A	A		D		C							
Dimethyl phthalate	H ₃ C-COO-C ₆ H ₄ -COO-CH ₃	100	60			A	A					D									
Dimethyl sulfoxide	(CH ₃) ₂ SO, (C ₂ H ₆ SO)	100	20	1.100					A												
Dimethyl sulphate	(CH ₃) ₂ SO ₄ , (CH ₃ O) ₂ SO ₂	100	20	1.330																	
Dinitroaniline	(NO ₂) ₂ C ₆ H ₃ NH ₂	100	20	1.610																	
Dinitrobenzene	C ₆ H ₄ (NO ₂) ₂	100	20	1.575																	
Dinitrochlorobenzene	C ₆ H ₃ (NO ₂) ₂ Cl	100	20	1.680																	
Dinitrotoluene	CH ₃ C ₆ H ₃ (NO ₂) ₂ , (NO ₂) ₂ C ₆ H ₃ CH ₃	100	20	1.520			A				D	D	C	D							
Dinonyl phthalate	C ₆ H ₄ (COOC ₉ H ₁₉) ₂	100	20	0.978					A	A		D	D								
Diocetyl phthalate	C ₆ H ₄ (COOC ₈ H ₁₇) ₂	100	20	0.980		A	A			A	A	B	A	C							
Diocetyl phthalate	C ₆ H ₄ (COOC ₈ H ₁₇) ₂	100	40			A	A			A				C							
Diocetyl phthalate	C ₆ H ₄ (COOC ₈ H ₁₇) ₂	100	60			A	A			A											
Diocetyl phthalate	C ₆ H ₄ (COOC ₈ H ₁₇) ₂	100	80			A	A			A											
Diocetyl sebacate		100	20									C	D	C	B						
Dioxane (Diethylene dioxide), pure	O(C ₂ H ₄) ₂ O, O ₂ (CH ₂) ₄	100	20	1.030		B	A		A	A	D	D	D	D							
Dioxane (Diethylene dioxide), pure	O(C ₂ H ₄) ₂ O, O ₂ (CH ₂) ₄	100	40			B	A		A	A	D	D	D	D							
Dioxane (Diethylene dioxide), pure	O(C ₂ H ₄) ₂ O, O ₂ (CH ₂) ₄	100	60			B	A		A	A	D	D	D								
Dioxolane		100	20									D	D	D	D						
Dipentene (Limonene)	C ₁₀ H ₁₆	100	25	0.850		A	A			A	D	B	A	D							
Diphenyl	(C ₆ H ₅) ₂ , C ₁₂ H ₁₀	100	20	1.040		A	A			A	D	D	A	D							
Diphenyl amine	(C ₆ H ₅) ₂ NH	100	20	1.158			A		A		B	B	D								
Diphenyl ether	C ₆ H ₅ -O-C ₆ H ₅	100	20			A	A			A				D							
Diphenyl oxide, saturated	(C ₆ H ₅) ₂ O	100	20			A	A	A		A	D	D	A	D							
Diphenylen oxide	C ₁₂ H ₈ O, C ₆ H ₄ OC ₆ H ₄	100	20	1.070																	
Disodium phosphate		100	20							A	A										
Distillery wort		100	20				A														
Dowtherm oil		100	20			C	A			A	D	D	A	B							
Dry cleaning fluid		100	20			A	A			A		C	A	C							
Endrine	C ₁₂ H ₈ OCl ₆	100	20																		
Epichlorohydrin, pure	OCH ₂ CHCH ₂ Cl	100	20	1.180	1.0	A	A		A	A	D	D	D	D							
Epichlorohydrin, pure	OCH ₂ CHCH ₂ Cl	100	40			A	A		A	A	D	D	D	D							
Epsom salt (Magnesium salt), saturated	MgSO ₄ +7H ₂ O	100	20	1.280			A			A	A	A	A								
Esters		100	20							A											
Esters		100	40							A											

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm ³)	Visc (cSt)	Material code															
						A	S	C	P	T	E	N	V	U	K						
Esters		100	60								A										
Esters		100	80								A										
Ethane	C ₂ H ₆ , CH ₃ CH ₃	100	20	1.36		A	A		A	A	D	A	A	B							
Ethanol (Ethyl alcohol), pure	C ₂ H ₅ OH	96	20	0.790		B	A	A	A	A	A	A	A	D							
Ethanol (Ethyl alcohol), pure	C ₂ H ₅ OH	96	60			B	A	A	A	A	A	A	A	D							
Ethanol (Ethyl alcohol), pure	C ₂ H ₅ OH	100	20	0.790	5.0	B	A	A		A	A	A	A	D	A						
Ethanol (Ethyl alcohol), pure	C ₂ H ₅ OH	100	40			B	A	A		A	A	A	A	D							
Ethanol (Ethyl alcohol), pure	C ₂ H ₅ OH	100	60			B	A	A		A	A	A	A	D							
Ethanol (Ethyl alcohol), pure	C ₂ H ₅ OH	100	80			B	A	A		A	A	B	A	D							
Ethanolamine, pure	NH ₂ CH ₂ CH ₂ OH	100	20	1.020	100-200	A	A		A	A	A	A	D	C							
Ether (Ethyl ether), pure	C ₂ H ₅ OC ₂ H ₅ , (C ₂ H ₅) ₂ O	100	20	0.710	1.4	A	A	C		A	C	B	C	C	A						
Ether (Ethyl ether), pure	C ₂ H ₅ OC ₂ H ₅ , (C ₂ H ₅) ₂ O	100	40			A	A	C		A				C							
Ether (Ethyl ether), pure	C ₂ H ₅ OC ₂ H ₅ , (C ₂ H ₅) ₂ O	100	60			A	A	C		A											
Ether diethylene	C ₂ H ₄ O	100	20	0.870																	
Etheral oils		100	20			A	A			A		D	A		A						
Ethyl acetate, pure	CH ₃ COOC ₂ H ₅ , CH ₃ COOCH ₂ CH ₃	100	20	0.902	0.5	A	A	A	A	A	B	D	D	D	A						
Ethyl acetate, pure	CH ₃ COOC ₂ H ₅ , CH ₃ COOCH ₂ CH ₃	100	40			A	A	A		A		D	D	D							
Ethyl acetate, pure	CH ₃ COOC ₂ H ₅ , CH ₃ COOCH ₂ CH ₃	100	60			A	A	A		A		D	D								
Ethyl acetate, pure	CH ₃ COOC ₂ H ₅ , CH ₃ COOCH ₂ CH ₃	100	80			A	A	A		A		D	D								
Ethyl acetoacetate, pure	CH ₃ COCH ₂ COOC ₂ H ₅	100	20	1.030		A				A	A	D	D	C							
Ethyl acetoacetate, pure	CH ₃ COCH ₂ COOC ₂ H ₅	100	40			A				A	A	D	D	C							
Ethyl acetoacetate, pure	CH ₃ COCH ₂ COOC ₂ H ₅	100	60			A				A		D	D								
Ethyl acetoacetate, pure	CH ₃ COCH ₂ COOC ₂ H ₅	100	80			A				A		D	D								
Ethyl acrylate, pure	CH ₂ =CHCOOC ₂ H ₅ , C ₅ H ₈ O ₂	100	20	0.920	11.0	A	A			A	B	D	D	D							
Ethyl acrylate, pure	CH ₂ =CHCOOC ₂ H ₅ , C ₅ H ₈ O ₂	100	40			A	A			A		D	D	D							
Ethyl acrylate, pure	CH ₂ =CHCOOC ₂ H ₅ , C ₅ H ₈ O ₂	100	60			A	A			A		D	D	D							
Ethyl acrylate, pure	CH ₂ =CHCOOC ₂ H ₅ , C ₅ H ₈ O ₂	100	80			A	A			A		D	D	D							
Ethyl amine	C ₂ H ₅ NH ₂ , CH ₃ -CH ₂ -NH ₂	100	20	0.689																	
Ethyl aniline	C ₂ H ₅ HH(C ₅ H ₅)	100	20	0.960																	
Ethyl benzene	C ₆ H ₅ C ₂ H ₅	100	20	0.870		A	B			A	D	C	A	D	A						
Ethyl benzoate		100	20			A	A			A	C		A	D							
Ethyl bromide	CH ₃ -CH ₂ -Br	100	20	1.460																	
Ethyl carbinol	CH ₃ CH ₂ CH ₂ OH, C ₃ H ₇ OH	100	20	0.803	3.0																
Ethyl cellulose		100	20			B	B			A	B		D	B							
Ethyl chloride	CH ₃ CH ₂ Cl, C ₂ H ₅ Cl	100	20	0.920	0.9	D	A	C		A	A	B	A	C	A						
Ethyl chloride	CH ₃ CH ₂ Cl, C ₂ H ₅ Cl	100	40			D	A	C		A	A		A	C							

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						A	S	C	P	T	E	N	V	U	K	
Ethyl chloride	CH ₃ CH ₂ Cl, C ₂ H ₅ Cl	100	80			D	A	C		A			B			
Ethyl chlorocarbonate	C ₁ COOC ₂ H ₅	100	20	1.140					A			A	D			
Ethyl chloroformate	C ₁ COOC ₂ H ₅	100	20	1.140					A	B	D	D	D			
Ethyl diglycol	HO(CH ₂) ₄ O ₂ C ₂ H ₅	100	20	0.990												
Ethyl formate, pure	HCO ₂ C ₂ H ₅	100	20	0.920		C	B		A	C	D	A				
Ethyl hexaldehyde	C ₄ H ₉ CH(C ₂ H ₅)CHO	100	20	0.900												
Ethyl hexanol	C ₄ H ₉ CH(C ₂ H ₅)CH ₂ OH, C ₈ H ₁₈ O	100	20	0.830				A	A		D					
Ethyl hexylamine	C ₄ H ₉ CH(C ₂ H ₅)CH ₂ NH ₂	100	20	0.790												
Ethyl mercaptan, pure	C ₂ H ₅ SH	100	20	0.840		B	B		A	A	D	A				
Ethyl mercaptan, pure	C ₂ H ₅ SH	100	50			B	B		A		D	A				
Ethyl methyl ether	CH ₃ OC ₂ H ₅	100	20						A							
Ethyl nitrite	C ₂ H ₅ ONO	100	20													
Ethyl oxalate		100	20			A			A	A	D	D	A			
Ethyl pentachlorobenzene		100	20						A		C	A	C			
Ethyl silicate	(OC ₂ H ₅) ₄ Si	100	20	0.935		B	A		A	A	A	A				
Ethyl sulphate	(C ₂ H ₅) ₂ SO ₄	100	20	1.180			D				A	A				
Ethyl sulphuric acid	C ₂ H ₅ OSO ₃ H	100	20	1.320		D									A	
Ethyl trichlorosilane	C ₂ H ₅ SiCl ₃	100	15	1.240												
Ethylene (Ethene)	C ₂ H ₄ , CH ₂ =CH ₂	100	20	0.410		A	A		A	C	A	A				
Ethylene bromide, pure	C ₂ H ₄ Br ₂ , CH ₂ BrCH ₂ Br	100	20	2.180		A	A		A	B	D	C		A		
Ethylene chloride (Dichlorethane)	CH ₂ ClCH ₂ Cl	100	20	1.260		C	A		A	D	D	A	D	A		
Ethylene chloride (Dichlorethane)	CH ₂ ClCH ₂ Cl	100	30			C	A		A	D	D		D			
Ethylene chloride (Dichlorethane)	CH ₂ ClCH ₂ Cl	100	40			C	A		A	D	D		D			
Ethylene chlorohydrin, pure	CG ₂ OHCH ₂ Cl	100	20	1.210		A	A		A	A	D	D	D	A		
Ethylene chlorohydrin, pure	CG ₂ OHCH ₂ Cl	100	40			A	A		A		D	D	D			
Ethylene chlorohydrin, pure	CG ₂ OHCH ₂ Cl	100	60			A	A		A		D	D	D			
Ethylene chlorohydrin, pure	CG ₂ OHCH ₂ Cl	100	80			A	A		A		D	D	D			
Ethylene cyanohydrin	CH ₂ (OH)CH ₂ CN	100	20		1.060											
Ethylene diamine, pure	NH ₂ CH ₂ CH ₂ NH ₂	100	20	0.900	1.5	D	A		A	A	A	A	D	D	A	
Ethylene diamine, pure	NH ₂ CH ₂ CH ₂ NH ₂	100	40			D	A		A	A			D	D		
Ethylene dichloride (Dichloroethane)	C ₂ H ₄ Cl ₂	100	20	1.250	8.0	C	A	A		A	D	D	A	D		
Ethylene fluoride	CH ₃ CHF ₂	100	20	0.910												
Ethylene glycol (Cellosolves), pure	C ₂ H ₄ (OH) ₂ , HOCH ₂ CH ₂ OH	100	20	1.110	18-90	A	A	A	A	A	A	A	A	B		
Ethylene glycol (Cellosolves), pure	C ₂ H ₄ (OH) ₂ , HOCH ₂ CH ₂ OH	100	80			A	A	A		A	A	A	A	B		
Ethylene oxide	(CH ₂) ₂ O, CH ₂ OCH ₂	100	20	0.870	1.1	A	B	D	A	A	D	D	D	C		
Ethylene oxide	(CH ₂) ₂ O, CH ₂ OCH ₂	100	40			A	B	D	A	A	D	D	D	C		

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						A	S	C	P	T	E	N	V	U	K					
Ethylene oxide	(CH ₂) ₂ O, CH ₂ OCH ₂	100	60			A	B	D	A	A	D	D	D							
Ethylene oxide	(CH ₂) ₂ O, CH ₂ OCH ₂	100	80			A	B	D			D	D	D							
Ethylene trichloride	CICH=CCl ₂	100	20	1.460		C	A				D	D	A	D						
Ethylenimine	NHCH ₂ CH ₂	100	20	0.830																
Fat		100	20				A								A					
Fatty acid (Sebacic acid)	C ₁₇ H ₃₃ CO ₂ H	100	20	0.900		A	A	C	A	A	D	A	A						A	
Fatty acid (Sebacic acid)	C ₁₇ H ₃₃ CO ₂ H	100	40			A	A	C		A	D									
Fatty acid (Sebacic acid)	C ₁₇ H ₃₃ CO ₂ H	100	80			A	A	C		A	D									
Fatty alcohol		100	20			A	A		A	A		A	D							
Fatty alcohol sulphonates		100	20			D	A			A		A								
Ferric chloride, saturated	FeCl ₃	10	20	1.085		D	D	D		A	A	A	A	D						
Ferric chloride, saturated	FeCl ₃	50	20	1.550		D	D	D		A	A	A	A	D	A					
Ferric chloride, saturated	FeCl ₃	100	20	2.800		D	D	D		A	A	A	A	D						
Ferric chloride, saturated	FeCl ₃	100	80			D	D	D		A	A	B	A	D						
Ferric hydroxide, saturated		100	20							A	A	A	A							
Ferric hydroxide, saturated		100	80							A	A	B	A							
Ferric nitrate, saturated	Fe(NO ₃) ₃	10	20	1.080		D	B			A	A	A	A	A						
Ferric nitrate, saturated	Fe(NO ₃) ₃	25	20	1.230		D	B			A	A	A	A	A						
Ferric nitrate, saturated	Fe(NO ₃) ₃	100	20			D	B			A	A	A	A	A						
Ferric nitrate, saturated	Fe(NO ₃) ₃	100	80			D	B			A	A	B	A							
Ferric oxide	FeO ₂	100	20																	
Ferric sulphate	Fe ₂ (SO ₄) ₃	50	20	1.610		D	A	D		A	A	B	A							
Ferric sulphate	Fe ₂ (SO ₄) ₃	100	20			D	A	D		A	A	B	A							
Ferric sulphide	Fe ₂ S ₃	100	20							A	A	A	A							
Ferric sulphide	Fe ₂ S ₃	100	80							A	A	B	A							
Ferrous chloride, saturated	FeCl ₂	10	20	1.090		D	A	D		A	A	A	A	D	A					
Ferrous chloride, saturated	FeCl ₂	50	20			D	A	D		A	A	A	A	D	A					
Ferrous chloride, saturated	FeCl ₂	100	20			D	D	D		A	A	A	A	D						
Ferrous chloride, saturated	FeCl ₂	100	80			D	D	D		A	A	B	A	D						
Ferrous hydroxide, saturated		100	20							A	A	A	A							
Ferrous hydroxide, saturated		100	80							A	A	B	A							
Ferrous nitrate, saturated	Fe(NO ₃) ₂	100	20			D	A			A	A	A	A							
Ferrous nitrate, saturated	Fe(NO ₃) ₂	100	80			D	A			A	A	B	A							
Ferrous sulphate	FeSO ₄	20	20	1.210		A		D		A	A	A	A							
Ferrous sulphate	FeSO ₄	100	20				B	D		A	A	A	A							
Ferrous sulphate	FeSO ₄ +7H ₂ O	100	25	1.050			B	D		A	A	A	A							

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code										
						A	S	C	P	T	E	N	V	U	K	
Ferrous sulphate	FeSO4	100	80				B	D		A	A	B	A			
Fertilizer salts, aqueous		100	20							A	A	A	A			
Fluoboric acid, pure	HBF4	100	20	1.220		D	B	D	A	A	A	B	A			
Fluoboric acid, pure	HBF4	100	80			D	B	D		A	B		A			
Fluorine (gas), wet	F2	100	20	1.700						A	A	D	A			
Fluorine (gas), wet	F2	100	40							A	A		A			
Fluorine (gas), wet	F2	100	60							A	B		B			
Fluorine (liquid)	F2	100	20			A	A							C	B	
Fluorine monoxide	OF2	100	20	1.900												
Fluorobenzene		100	20									D	D	A		
Fluosilicic acid (Fluoric silicate)	H2SiF6	25	20	1.240		D	B	D	A			A	A	B		
Fluosilicic acid (Fluoric silicate)	H2SiF6	32	20												B	
Fluosilicic acid (Fluoric silicate)	H2SiF6	50	20			D	B	D		A	A	A	A	B		
Fluosilicic acid (Fluoric silicate)	H2SiF6	50	40			D	B	D		A	A	B	A	B		
Fluosilicic acid (Fluoric silicate)	H2SiF6	50	80			D	B	D		A	B	B	A			
Fluosilicic acid (Fluoric silicate)	H2SiF6	100	20			D	B	D			B	A	C	B		
Formaldehyde	HCHO, CH2O	35	20			A	A	C		A	A	B	A	D		
Formaldehyde	HCHO, CH2O	35	60			A	A	C		A	A	B	A	D		
Formaldehyde	HCHO, CH2O	35	80			A	A	C		A	A	B	A	D		
Formaldehyde	HCHO, CH2O	37	20	1.1	0.9	A	A	C		A	A	B	A	D		
Formaldehyde	HCHO, CH2O	37	60			A	A	C		A	A	B	A	D		
Formaldehyde	HCHO, CH2O	37	80			A	A	C		A	A	B	A	D		
Formaldehyde	HCHO, CH2O	40	20	2.27		A	A	C		A	A	A	A	D	A	
Formaldehyde	HCHO, CH2O	50	20			A	A	C		A	A	D	B	D		
Formaldehyde	HCHO, CH2O	50	60			A	A	C		A		D		D		
Formaldehyde	HCHO, CH2O	50	80			A	A	C		A		D		D		
Formaldehyde	HCHO, CH2O	100	25	0.820		A	A	C		A	B	C	A	D		
Formalin	HCHO	100	20	1.100		A	A	C	A	A	B	C	A			
Formamide	HCONH2	100	20	1.130	3.0	A	A		A	A		A	D		A	
Formamide	HCONH2	100	70			A	A		A				D			
Formic acid (Methanoic acid)	HCOOH, HCO2H	50	20				A		A	A	A	D	A	D		
Formic acid (Methanoic acid)	HCOOH, HCO2H	90	20			B	B	D	A	A	A	D	D	D		
Formic acid (Methanoic acid)	HCOOH, HCO2H	90	40			B	B	D		A	A	D	D	D		
Formic acid (Methanoic acid)	HCOOH, HCO2H	90	60			B	B	D		A	A	D	D	D		
Formic acid (Methanoic acid)	HCOOH, HCO2H	100	20	1.220	1.5	A	B	D		A	A	D	D	D	A	
Freon 11	CCI3F, CFCI3	100	20	1.494		B	C	C		A	C	D	B	D		



Chemical guide

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code																				
						A	S	C	P	T	E	N	V	U	K											
Freon 1113	CF2=CFCI	100	20	1.000																						
Freon 112		100	20																				B	A		
Freon 113	CCI2FCCIF2	100	20	1.563			A				A	D	D	B	B											
Freon 114	CF2CICF2CI	100	20	1.000							A	C	B	A	A											
Freon 114 B2		100	20										D	B	B											
Freon 115		100	20										A	A	B											
Freon 12	CCI2F2	100	20	1.000			D	A			A	B	C	B	A											
Freon 12 B1	CCIF2Br	100	20	1.000																						
Freon 13	CCIF3	100	20	1.000							A	A	A	A												
Freon 13 B1		100	20								A	A	A	A	A											
Freon 133 a	CH2CI-CF3	100	20																							
Freon 142 b	C2H3CIF2	100	20	1.118										A	D											
Freon 152 a		100	20											A	D											
Freon 21	CHCI2F	100	20	1.380							A	C	D	C												
Freon 21	CHCI2F	100	40								A		D	D												
Freon 218		100	20											A	A											
Freon 22	CHCIF2	100	20	1.213			C	C			A	B	D	D	D											
Freon 23	CHF3	100	20	1.000																						
Freon 31		100	20											D	D											
Freon 32		100	20											A	C											
Freon 502		100	20	1.04										B	B											
Freon BF		100	20											B												
Freon C316		100	20											A												
Freon C318		100	20											A	A											
Freon MF		100	20											A									C			
Freon TA		100	20											A	C	A										
Freon TC		100	20									A		A	A	A										
Freon TMC		100	20									A		B	A	B										
Freon T-P35		100	20									A		A	A	A										
Freon T-WD602		100	20									A		B	A	A										
FreonTF		100	20				A						D	C	B	A										
Fructose		100	20									A	A	A	A	A										
Fructose		100	80										A	A	B	A										
Fruit juice, pure		100	20	1.04	55-75		A	A	D	A	A	A	A	A	A											
Fruit pulp		100	20											A												
Fruit wine		100	20											A												

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code										
						A	S	C	P	T	E	N	V	U	K	
Fuel oils		100	20	0.860		A	A		A	A	D	A	A	B		
Fumaric acid	C4H4O4	100	20	1.625						A		A	A			
Furan (Furfuran)	C4H4O	100	20	0.964		A	A			A	D	D	D			
Furan resin	C5H4O2	100	20				A						D	A		
Furfur aldehyde	(CH)3COCHO, OCH=CHCH=CCHO	100	20	1.160		A	A	A	A	A	A	D	B			
Furfural, pure	C4H3OCHO, OCH=CHCH=CCHO	100	20	1.160	8.0	B	A	A	A	A	A	D	B	D		
Furfural, pure	C4H3OCHO, OCH=CHCH=CCHO	100	40			B	A	A		A	A	D	B	D		
Furfural, pure	C4H3OCHO, OCH=CHCH=CCHO	100	60			B	A	A		A	A	D	C	D		
Furfural, pure	C4H3OCHO, OCH=CHCH=CCHO	100	80			B	A	A		A	B	D		D		
Furfurole	C5H6O2	100	20	1.160		A	A	A		A	A	D	B			
Furfuryl alcohol, pure	C4H3OCH2O	100	20	1.130					A	A	C	D	D			
Furfuryl alcohol, pure	C4H3OCH2O	100	60							A		D	D			
Furfuryl alcohol, pure	C4H3OCH2O	100	80									D	D			
Gallic acid	C6H2(OH)3COOH, C6H2(OH)3CO2H	50	20			A	A			A	A	A	A	D		
Gallic acid	C6H2(OH)3COOH, C6H2(OH)3CO2H	100	20	1.700		A	B			A	A	A	A	D		
Gallic acid	C6H2(OH)3COOH, C6H2(OH)3CO2H	100	40			A	B			A				D		
Gallic acid	C6H2(OH)3COOH, C6H2(OH)3CO2H	100	60			A	B			A				D		
Gallic acid	C6H2(OH)3COOH, C6H2(OH)3CO2H	100	80			A	B			A				D		
Gelatin		100	20			A	A	D	A	A	A	A	A	A		
Gelatin		100	80			A	A	D		A	A	B	A			
Gin		100	20							A	A	A	A			
Gin		100	60							A	A	A	A			
Gin		100	80							A	A	A	A			
Ginger oil		100	20				A	D				A	A			
Gluconic acid-d	C6H12O7	100	20			A				A	A					
Glucose	C6H12O6	100	20	1.130	3300-6600	A	A	A	A	A	A	A	A	A		
Glue		100	20			A	A	A		A	A	A	A			
Glue		100	80			A	A	A		A	A	B	A	A		
Glycerol (Glycerine), aqueous	C3H5(OH)3, (CH2OH)2CHOH	100	20													
Glycerol (Glycerine), pure	C3H5(OH)3, (CH2OH)2CHOH	100	20	1.260	500.0	A	A	A	A	A	A	A	A	A		
Glycerol chlorohydrin	(CH2OH)2ClCH	100	20	1.332						A	A		D	A		
Glycerphosphoric acid	C3H7O3PO(OH)2	100	20													
Glycocoll (Glycine, Aminoacetic acid)	NH2CH2COOH	10	20							A						
Glycocoll (Glycine, Aminoacetic acid)	NH2CH2COOH	100	20							A		A	A			
Glycol (Ethylene glycol), pure	C2H4(OH)2, HOCH2CH2OH	100	20	1.110		A	A	A	A	A	A	A	A	B		
Glycol (Ethylene glycol), pure	C2H4(OH)2, HOCH2CH2OH	100	80			A	A	A		A	A	A	A			

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code												
						A	S	C	P	T	E	N	V	U	K			
Glycol acetate	CH ₂ OH-CH ₂ O	100	20	1.110														
Glycolic acid, saturated	HOCH ₂ COOH, CH ₂ OHCO ₂ H	37	20			A	A		A	A	A	A	A					
Glycolic acid, saturated	HOCH ₂ COOH, CH ₂ OHCO ₂ H	70	20						A	A	A	A	A					
Glycolic acid, saturated	HOCH ₂ COOH, CH ₂ OHCO ₂ H	100	20							A	A	A	A					
Glycolic acid, saturated	HOCH ₂ COOH, CH ₂ OHCO ₂ H	100	40							A								
Glycolic acid, saturated	HOCH ₂ COOH, CH ₂ OHCO ₂ H	100	60							A								
Glycolic acid, saturated	HOCH ₂ COOH, CH ₂ OHCO ₂ H	100	80							A								
Gold monocyanide	AuCN	100	20				A	D				A	A					
Gold, plating solution		100	20				A			A	A	A	A					
Grape juice		100	20				A	D				A	A					
Grape sugar		100	20							A	A	A	A					
Grape sugar		100	80							A	A	B	A					
Grease		100	20				A	A				D	A					
Heptane (i)	C ₇ H ₁₆	100	20	0.680	15.0	A	A	A	A	A	D	A	A	B				
Heptane (n)	CH ₃ (CH ₂) ₅ CH ₃	100	20	0.680		A	A	A	A	A	D	A	A	B				
Heptane (n)	CH ₃ (CH ₂) ₅ CH ₃	100	60			A	A	A		A	D		A	B				
Heptene	C ₇ H ₁₄	100	20	0.700														
Hexachlorobenzene	C ₆ Cl ₆	100	20			A												
Hexachloroethane	C ₂ Cl ₆	100	20	0.880		A	D			A								A
Hexaldehyde-N		100	20			A	A					B	D					
Hexamethylene diamine	H ₂ N(CH ₂) ₆ NH ₂	100	20															
Hexamethylene diisocyanate	OCN-(CH ₂) ₆ -NCO	100	20	1.050														
Hexamethylene tetramine	(CH ₂) ₆ N ₄	100	20			A	A			A								
Hexane (I-Hexane)	C ₆ H ₁₄	100	20	0.660	0.6	A	A	A	A	A	D	A	A	B				
Hexane (N-Hexane)	CH ₃ (CH ₂) ₄ CH ₃	100	20	0.660		A	A	A	A	A	D	A	A	B				
Hexane (N-Hexane)	CH ₃ (CH ₂) ₄ CH ₃	100	60			A	A			A	D							
Hexene (N-Hexene-1)		100	20									D	B	A				
Hexyl alcohol, pure	C ₅ H ₁₁ CH ₂ OH, C ₆ H ₁₃ OH	100	20	0.830			A	A		A	B	A	A					
Hexyl alcohol, pure	C ₅ H ₁₁ CH ₂ OH, C ₆ H ₁₃ OH	100	60				A	A		A	C	B	A					
Hexyl alcohol, pure	C ₅ H ₁₁ CH ₂ OH, C ₆ H ₁₃ OH	100	80				A	A		A	D		A					
Hexylene glycol	(CH ₃) ₂ C(OH)C ₂ H ₃ (OH)CH ₃	100	20	0.920														
Honey		100	20	1.5	1000		A	A	A		A	A	A					
Horse radish oil		100	20									D						
Hydraulic oil, mineral		100	20			A	A	A		A	D	A	A	A				
Hydraulic oil, synthetic		100	20				A				D	C	A					
Hydrazine hydrate	H ₂ NNH ₂ (H ₂ O)	100	20	1.030	1.0					A	A	A	D	A	D			

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code														
						A	S	C	P	T	E	N	V	U	K					
Hydrazine, pure	H2NNH2, NH2NH2	100	20	1.011	0.97	A	A	C		A	A	A	D	D						
Hydriodic acid	HI	100	20			A	A			A										A
Hydrobromic acid	HBr+H2O	10	20	1.070		D	D	D	A	A	A	D	A	D	A					A
Hydrobromic acid	HBr+H2O	20	20			D	D	D	A	A	A	C	A	D						
Hydrobromic acid	HBr+H2O	20	60			D	D	D		A	A	D	A	D						
Hydrobromic acid	HBr+H2O	20	80			D	D	D		A	B	D	B	D						
Hydrobromic acid	HBr+H2O	48	20	1.440		D	D	D	A	A	A	D	A	D						
Hydrobromic acid	HBr+H2O	50	20	1.520		D	D	D	A	A	A	C	A	D						
Hydrobromic acid	HBr+H2O	50	40			D	D	D	A	A	A	D	A	D						
Hydrobromic acid	HBr+H2O	50	80			D	D	D		A		D		D						
Hydrobromic acid	HBr	100	20	1.800		D	D	D		A	A	D	A	D						
Hydrobromic acid	HBr	100	25	1.780		D	D	D		A	A	D	A	D						
Hydrocarbons, aromatic		100	20				C	A				D	A							
Hydrocarbons, chlorinated		100	20				D	A				D	D							
Hydrochloric acid, anhydrous	HCl	100	20																	
Hydrochloric acid, aqueous solution	HCl+H2O	5	20			D	D	D		A	A	C	A	B						
Hydrochloric acid, aqueous solution	HCl+H2O	5	40			D	D	D		A	A	D	A	B						
Hydrochloric acid, aqueous solution	HCl+H2O	5	80			D	D	D		A	A	D	A	B						
Hydrochloric acid, aqueous solution	HCl+H2O	10	20			D	D		A	A	A	C	A	B	A					
Hydrochloric acid, aqueous solution	HCl+H2O	10	40			D	D		A	A	A	D	A	B	A					
Hydrochloric acid, aqueous solution	HCl+H2O	10	60			D	D		A	A	A	D	A		A					
Hydrochloric acid, aqueous solution	HCl+H2O	20	20	1.100	1.0	A	D	D	A	A	A	D	A	B	A					
Hydrochloric acid, aqueous solution	HCl+H2O	20	40			D	D	D	A	A	A		A	B	A					
Hydrochloric acid, aqueous solution	HCl+H2O	20	60			D	D	D	A	A	C		C		A					
Hydrochloric acid, aqueous solution	HCl+H2O	20	80			D	D	D		A					A					
Hydrochloric acid, aqueous solution	HCl+H2O	25	20	1.150		D	D	D	A	A	A	C	A	B	A					
Hydrochloric acid, aqueous solution	HCl+H2O	25	40			D	D	D	A	A	A	D	A	B	A					
Hydrochloric acid, aqueous solution	HCl+H2O	25	80			D	D	D		A	B	D	D		A					
Hydrochloric acid, aqueous solution	HCl+H2O	35	20	1.180		D	D	D	A	A	B	C	B	C	A					
Hydrochloric acid, aqueous solution	HCl+H2O	35	40			D	D	D	A	A	B	D	B	C	A					
Hydrochloric acid, aqueous solution	HCl+H2O	35	60			D	D	D	A	A	D	D	D		A					
Hydrochloric acid, aqueous solution	HCl+H2O	35	80	D		D	D	D		A	D	D	D		A					
Hydrochloric acid, aqueous solution	HCl+H2O	37	20			D	D	D	A	A	A	D	A	C	A					
Hydrochloric acid, aqueous solution	HCl+H2O	37	40			D	D	D	A	A	C	D	A	C	A					
Hydrochloric acid, aqueous solution	HCl+H2O	37	60			D	D	D	A	A	D	D	C		A					
Hydrochloric acid, aqueous solution	HCl+H2O	38	20	1.200		D	D	D	A	A	C	C	B	C	A					



Chemical guide

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code										
						A	S	C	P	T	E	N	V	U	K	
Hydrochloric acid, aqueous solution	HCl+H2O	38	40			D	D	D	A	A	C	D	B	C	A	
Hydrochloric acid, aqueous solution	HCl+H2O	38	60			D	D	D	A	A	D	D	D		A	
Hydrochloric acid, aqueous solution	HCl+H2O	38	80			D	D	D		B	D	D	D		A	
Hydrocyanic acid (Prussic acid),	HCN	100	20	0.690		A	A	D	A	A	B	B	B		A	
Hydrofluoric acid	HF+H2O	10	25	1.030		D	D	D								
Hydrofluoric acid	HF+H2O	30	20			D	D	D		A	A	D	A			
Hydrofluoric acid	HF+H2O	30	40			D	D	D		A	A	D	A			
Hydrofluoric acid	HF+H2O	30	60			D	D	D		A	A	D	A			
Hydrofluoric acid	HF+H2O	30	80			D	D	D		A	B	D	A			
Hydrofluoric acid	HF+H2O	38	20	1.125		D	D	D	A	A	A	D	A			
Hydrofluoric acid	HF+H2O	40	20	1.060		D	D	D	A	A	A	D	A			
Hydrofluoric acid	HF+H2O	40	40			D	D	D	A	A	B	D	A			
Hydrofluoric acid	HF+H2O	40	60			D	D	D		A	C	D	A			
Hydrofluoric acid	HF+H2O	40	80			D	D	D		A	D	D	A			
Hydrofluoric acid	HF+H2O	50	20			D	D	D	A	A	A	D	A	D		
Hydrofluoric acid	HF+H2O	50	40			D	D	D		A	A	D	A			
Hydrofluoric acid	HF+H2O	50	60			D	D	D		A	B	D	A			
Hydrofluoric acid	HF+H2O	50	80			D	D	D		A	C	D	A			
Hydrofluoric acid	HF+H2O	70	20	1.230		D	D	D	A	A	C	D	A			
Hydrofluoric acid	HF+H2O	75	20	0.990		D	D	D		A	C	D	A			
Hydrofluoric acid	HF+H2O	75	25	1.240		D	D	D		A	C	D	A			
Hydrofluoric acid	HF+H2O	100	25	0.990		D	D	D								
Hydrofluoric acid, dilute	HF	100	20							A	A	D	A			
Hydrofluoric acid, dilute	HF	100	40							A	A	D	A			
Hydrofluoric acid, dilute	HF	100	80							A	A	D	A			
Hydrofluosilicic acid	H2SiF6	10	20			D	D	D	A	A	A	A	A	B		
Hydrofluosilicic acid	H2SiF6	20	20			D	D	D	A	A	A	A	A	B		
Hydrofluosilicic acid	H2SiF6	32	20	1.170		D	D	D		A		D	A		A	
Hydrogen	H2	100	20	0.070		A	A		A	A	A	A	A			
Hydrogen chloride, anhydrous	HCl	100	20	0.910												
Hydrogen fluoride, anhydrous	HF	100	20	0.970						A	B	D	D			
Hydrogen peroxide	H2O2	3	20	1.010		A		D	A		D	A	C	A		
Hydrogen peroxide	H2O2	5	20			A		D	A	A	D	A	C	A		
Hydrogen peroxide	H2O2	5	40			A		D	A	B	D	A	C	A		
Hydrogen peroxide	H2O2	5	80			A		D	A	C	D	A		A		
Hydrogen peroxide	H2O2	10	20	1.040		A		D	A	A		D	A	C	A	

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm ³)	Visc (cSt)	Material code										
						A	S	C	P	T	E	N	V	U	K	
Hydrogen peroxide	H2O2	20	20	1.070		A		D	A	A		D	A	C	A	
Hydrogen peroxide	H2O2	30	20	1.100		A		D	A	A		D	A	C	A	
Hydrogen peroxide	H2O2	35	20	1.130										C	A	
Hydrogen peroxide	H2O2	50	20	1.200		A		D	A	A	C	D	A	C	A	
Hydrogen peroxide	H2O2	50	40			A		D		A		D	B		A	
Hydrogen peroxide	H2O2	90	20	1.400		A		D		A	D	D	D		A	
Hydrogen peroxide	H2O2	100	20	1.442		A		D							A	
Hydrogen sulphide, aqueous	H2S	100	20	0.960		A	A	D	A	A	A	A	A	B	A	
Hydrogen sulphide, aqueous	H2S	100	20	0.960				D		A	A	A	A	B		
Hydrogen sulphide, aqueous	H2S	100	60			A	A	D	A	A	A	A	B			
Hydrogen sulphide, dry	H2S	100	20	0.960		A	A	D	A	A	A	A	A		A	
Hydrogen sulphide, dry	H2S	100	20					D	A	A	A	A	A			
Hydrogen sulphide, dry	H2S	100	80				A	D		A	B	B	A			
Hydrogen sulphide, dry	H2S	100	80					D		A	B	B	A			
Hydroquinone, saturated	C6H4(OH)2	100	20			A	A	D		A	A	A	A			
Hydrosulphite (Sodium dithionite)	Na2S2O4	10	20			D	A		A	A		D	A			
Hydrosulphite (Sodium dithionite)	Na2S2O4	10	40			D	A		A	A		D	A			
Hydrosulphite (Sodium dithionite)	Na2S2O4	10	60			D	A		A	A		D	A			
Hydroxyacetic acid	HOCH2COOH	70	20								A	A	A			
Hydroxylamine	NH2OH	100	20	1.200												
Hydroxylamine sulphate	(H2NOH)2H2SO4	100	20							A		A	A			
Hypochlorous acid	HCIO2	10	20			A	A			A	A	C	A			
Hypochlorous acid	HCIO2	10	40			D	D			A	B		B			
Hypochlorous acid	HCIO2	10	80			D	D			A						
Indium, plating solution		100	20				A					A	A			
Ink		100	20			C	A	D	A			A	A			
Insecticide (Summiton)		100	20							A	A	C	A			
Insecticide (Summiton)		100	60							A	A		A			
Iodic acid	HIO3	35	20	1.390												
Iodine	J2, I2	100	20	4.940			D	D		A	D	A	B	D		
Iodine	J2, I2	100	60				D	D		A	D	A		D		
Iodine pentafluoride	IF5	100	20									D	D	D		
Iodine silicic acid	HI-H2O	100	20	1.700		A	A			A					A	
Iodine solution		10	20							A						
Iodine tincture		100	20	0.905		A				A		A	A			
Iodine water, saturated		100	20													

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm ³)	Visc (cSt)	Material code											
						A	S	C	P	T	E	N	V	U	K		
Iodoform (Triiodomethane)	CHI ₃	100	20	4.010		B	B			A	A						
Iron salts		100	20														
Iron, plating solution		100	20				A					A	A				
Isobutyl alcohol, pure	C ₃ H ₇ CH, (CH ₃) ₂ CHCH ₂ OH	100	20	0.810	12.0	A	A	C		A	A	B	A				
Isobutylene	(CH ₃) ₂ C:CH ₂	100	20														
Isodecanol	C ₁₀ H ₂₁ OH	100	20	0.837													
Isooctane	(CH ₃) ₃ CCH ₂ CH(CH ₃) ₂	100	20	0.690		A	A		A	A	D	A	A	B			
Isooctanol	C ₄ H ₉ CH(C ₂ H ₅)CH ₂ OH	100	20	0.830					A		D						
Isophorone, pure	COCHC(CH ₃)CH ₂ C(CH ₃) ₂ CH ₂	100	20	0.920		A	A				D	D	D	B			
Isoprene	CH ₂ :C(CH ₃)CH:CH ₂	100	15	0.680													
Isopropanol (Isopropylalcohol)	(CH ₃) ₂ CHOH, CH ₃ CH(OH)CH ₃	100	20	0.780	3.0	B	A	C	A	A	A	A	A				
Isopropyl acetate, pure	CH ₃ COOCH(CH ₃) ₂	100	20	0.890	0.57	C	B		A	A	B	D	D	A			
Isopropyl alcohol, pure	C ₂ H ₅ CH ₂ OH, C ₃ H ₇ OH	100	20	0.780	3.0	B	A	C	A	A	A	A	A				
Isopropyl alcohol, pure	C ₂ H ₅ CH ₂ OH, C ₃ H ₇ OH	100	40			B	A	C	A	A	A	B	A				
Isopropyl amine	(CH ₃) ₂ -CH-NH ₂	100	20	0.694	0.5												
Isopropyl benzene (Cumene)	C ₆ H ₅ CH(CH ₃) ₂ , C ₉ H ₁₂	100	20	0.862	1.0	B	B				D		A				
Isopropyl chloride (2-Chloropropane)	C ₃ H ₇ Cl	100	20	0.859		A	A			A	D	B	A	D			
Isopropyl chloride (2-Chloropropane)	C ₃ H ₇ Cl	100	40			A	A			A	D			D			
Isopropyl chloride (2-Chloropropane)	C ₃ H ₇ Cl	100	60			A	A			A	D			D			
Isopropyl chloride (2-Chloropropane)	C ₃ H ₇ Cl	100	80			A	A			A	D			D			
Isopropyl ether, pure	C ₃ H ₇ OC ₃ H ₇	100	20	0.730		A	A			A	C	A	C	B			
Isopropyl ether, pure	C ₃ H ₇ OC ₃ H ₇	100	40			A	A			A				B			
Isopropyl ether, pure	C ₃ H ₇ OC ₃ H ₇	100	60			A	A			A							
Isopropyl ether, pure	C ₃ H ₇ OC ₃ H ₇	100	80			A	A										
Isopropyl formate	HCOOCH(CH ₃) ₂	100	20	0.870													
Isopropyl nitrate	(CH ₃) ₂ CHONO ₂	100	20	1.190													
Isopropyl toluene (p-Cymene)	CH ₃ C ₆ H ₄ CH(CH ₃) ₂	100	20	0.860										A			
Isotane		100	20										A	A			
Jet fuel JP-3		100	20			A	A	A		A	D	B	A	C			
Jet fuel JP-4		100	20			A	A	A		A	D	B	A	C			
Jet fuel JP-5		100	20			A	A	A		A	D	A	A	C			
K ₂ Cr ₂ O ₇	K ₂ Cr ₂ O ₇	100	80			A	A	A		A	A	B	A				
Kerosene, paraffin, photogene		100	20	0.750	4.0	A	A	A	A	A	D	A	A	C			
Kerosene, paraffin, photogene		100	40			A	A	A		A	D			C			
Kerosene, paraffin, photogene		100	60			A	A	A		A	D						
Ketchup (Catsup)		100	20			D	A	D				A	A				

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code										
						A	S	C	P	T	E	N	V	U	K	
Ketones	RCOR	100	20			A	A		A	A	A	D	D	A		
Lacquer solvent		100	20			A	A			A	D	D	D	D		
Lacquers		100	25	0.900		A	A	C		A	D	D	D	D		
Lactic acid	C2H4(OH)COOH, H6C3O3	10	20	1.020		A	A	D	A	A	A	A	A		A	
Lactic acid	C2H4(OH)COOH, H6C3O3	25	20			A	A	D	A	A	A	A	A			
Lactic acid	C2H4(OH)COOH, H6C3O3	25	40			A	A	D		A	A	B	A			
Lactic acid	C2H4(OH)COOH, H6C3O3	25	60			A	A	D		A	A	C	A			
Lactic acid	C2H4(OH)COOH, H6C3O3	25	80			A	A	D		A	A	D	A			
Lactic acid	C2H4(OH)COOH, H6C3O3	80	20			A	A	D	A	A	A	A	A			
Lactic acid	C2H4(OH)COOH, H6C3O3	80	40			A	A	D		A	A	B	A			
Lactic acid	C2H4(OH)COOH, H6C3O3	80	60			A	A	D		A	A	C	A			
Lactic acid	C2H4(OH)COOH, H6C3O3	80	80			A	A	D		A	A		A			
Lactic acid	C2H4(OH)COOH, H6C3O3	90	20	1.240		A	A	D	A	A	A	A	A		A	
Lanolin		100	20						A	A		A	A			
Lard		100	20	0.96	60.0	A	A	A		A	B	A	A	A		
Lard oil		100	20	0.91	40-50					A	A	A	A			
Latex		50	25	1.050	200	A						A	A			
Latex	100	20				A						A	A			
Lauric acid (n-dodecylic acid)	C12H24O2, CH3(CH2)10COOH	100	20	0.868					A	A						
Lauroyl Chloride, pure		100	20							A						
Lauroyl peroxide	(C11H23CO)2O2	100	20													
Lauryl alcohol	CH3(CH2)10OH	100	20							A		A	A			
Lauryl mercaptan	C12H25SH	100	25	0.850												
Lavender oil		100	20									D	B	A	D	
Lead (II) acetate, saturated	Pb(CH3COO)2+3H2O	100	20	2.5		D	B		A	A	A	A	A	D	A	
Lead (II) acetate, saturated	Pb(CH3COO)2+3H2O	100	60			D	B			A	A	A	B			
Lead (II) acetate, saturated	Pb(CH3COO)2+3H2O	100	80			D	B			A	A	B	B			
Lead chloride	PbCl2	0.9	20	1.010		D	A			A	A	A	A		A	
Lead chloride	PbCl2	100	20							A	A	A	A			
Lead chloride	PbCl2	100	80							A	A	B	A			
Lead chromate	PbCrO4	100	20			D	A			A					A	
Lead fluorine borate		100	20													
Lead nitrate	Pb(NO3)2	30	20	1.330		A	A			A	A	A	A		A	
Lead nitrate, saturated	Pb(NO3)2	100	20	4.350		D	B		A	A	A	A	A			
Lead nitrate, saturated	Pb(NO3)2	100	80			D	B			A	A	B	A			
Lead sulphamate		100	20				A					A	B	A		



Chemical guide

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code														
						A	S	C	P	T	E	N	V	U	K					
Lead sulphate	PbSO4	100	20								A	A	A	A						
Lead sulphate	PbSO4	100	80								A	A	B	A						
Lead thiocyanate	Pb(SCN)2	100	20	3.820																
Lead, plating solution		100	20								A	A	A	A						
Lemon oil		100	20					A	D		A		D	A						
Lignin		100	20					A					A	A						
Ligroin	CnH2n+2	100	20					A				D	A	A	B					
Lime (Calcium oxide)	CaO	100	20	3.370				A	A			A	A	A						
Lime bleach		100	20					A			A	A	A	A						
Lime sulfur		100	20					A			A	A	D	A						
Linoleic acid	C17H31COOH	100	20	0.901			A	A			A	D	B	A						
Linoleic oil		100	20					A			A		A							
Linseed oil	C5H11OH	100	20	0.930	30.0		B	A	A	A	A	B	B	A						
Linseed oil	C5H11OH	100	80				B	A	A		A			A						
Liquefied petroleum gas		100	20				A	A			A		A	A	A	A				
Liquers		100	20					A			A	A	A	A						
Lithium	Li	100	20	0.534																
Lithium aluminiumhydride	LiAlH4	100	20	0.860																
Lithium borhydride	LiBH4	100	20	0.660																
Lithium bromide	LiBrH2O	60	20	3.464				A	A	A	A		A	A						
Lithium chloride	LiCl	45	20	1.300			D	D			A		A	A					A	
Lithium hydride	LiH	100	20	0.820																
Lithium sulphate	LiSO4	25	20	1.230			A	A			A									
Lithophone	ZnS,BaSO4	100	20				A	A			A									
Liver paste		100	20					A						A						
Lubricating oil (ASTM 1)		100	20				A	A	A	A	A	D	A	A	B					
Lubricating oil (ASTM 2)		100	20				A	A	A	A	A	D	A	A	B					
Lubricating oil (ASTM 3)		100	20				A	A	A		A	D	A	A	B					
Lubricating oil (ASTM 3)		100	40				A	A	A	A	A	D	B	A	B					
Lubricating oil (ASTM 3)		100	80				A	A	A		A	D		B						
Machine oil		100	20							A	A	D	A	A						
Machine oil		100	60								A	D	B	A						
Magnesium bisulphite	Mg(HSO3)2	100	20				D				A									A
Magnesium carbonate	MgCO3	100	20	2.960			A	A		A	A	A	A	A	A					A
Magnesium carbonate	MgCO3	100	80				A	A			A	A	B	A						
Magnesium chloride, saturated	MgCl2+6H2O	10	20	1.080			B	A	D	A	A	A	A	A	A	A				A

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code											
						A	S	C	P	T	E	N	V	U	K		
Magnesium chloride, saturated	MgCl ₂ +6H ₂ O	15	20	1.130		B	A	D	A	A	A	A	A	A	A	A	A
Magnesium chloride, saturated	MgCl ₂ +6H ₂ O	25	20	1.150		B	A	D	A	A	A	A	A	A	A	A	A
Magnesium chloride, saturated	MgCl ₂ +6H ₂ O	30	20	1.280		B	A	D	A	A	A	A	A	A	A	A	A
Magnesium chloride, saturated	MgCl ₂ +6H ₂ O	100	20	2.320		B	A	D		A	A	A	A	A	A	A	A
Magnesium citrate		100	20							A	A	A	A				
Magnesium citrate		100	80							A	A	B	A				
Magnesium fluoride	MgF ₂	100	20			A	D			A							A
Magnesium hydroxide, saturated	Mg(OH) ₂	100	20			B	A	A	A	A	A	A	A	A	A		
Magnesium hydroxide, saturated	Mg(OH) ₂	100	80			B	A	A		A	A	B	A				
Magnesium nitrate	Mg(NO ₃) ₂ +6H ₂ O	25	20	1.210		A	A	D		A	A	A	A				A
Magnesium nitrate	Mg(NO ₃) ₂ +6H ₂ O	100	20	1.460			A	D		A	A	A	A				
Magnesium nitrate	Mg(NO ₃) ₂ +6H ₂ O	100	80				A	D		A	A	B	A				
Magnesium oxide	MgO	100	20				A	A					A	C			
Magnesium perchlorate	Mg(ClO ₄) ₂ +H ₂ O	100	25	2.600													
Magnesium salt (Epsom salt), saturated	MgSO ₄ +7H ₂ O	100	20	1.280			A			A	A	A	A	A			
Magnesium silicofluoride	MgSiF ₆ +6H ₂ O	100	20	1.780		A	A			A							A
Magnesium sulfite	MgSO ₃	100	20			A	A			A							A
Magnesium sulphate	MgSO ₄	10	20	1.100		A	A	A		A	A	A	A				
Magnesium sulphate	MgSO ₄	20	20	1.300		A	A	A		A	A	A	A				
Magnesium sulphate	MgSO ₄	100	20	1.280		A	A	A		A	A	A	A				
Maleic acid	CHCO ₂ HCHCO ₂ H, (HCCOOH) ₂	100	20			A	A			A	A	B	A				
Maleic acid	CHCO ₂ HCHCO ₂ H, (HCCOOH) ₂	100	40			A	A			A	B	B	A				
Maleic acid	CHCO ₂ HCHCO ₂ H, (HCCOOH) ₂	100	60			A	A			A	B		B				
Maleic acid,saturated	CHCO ₂ HCHCO ₂ H, (HCCOOH) ₂	50	20	1.300		A	A		A	A	A	A	A				
Maleic acid,saturated	CHCO ₂ HCHCO ₂ H, (HCCOOH) ₂	100	20	1.590		A	A		A	A	A	A	A				
Maleic acid,saturated	CHCO ₂ HCHCO ₂ H, (HCCOOH) ₂	100	60			A	A			A	A	A	B				
Maleic acid,saturated	CHCO ₂ HCHCO ₂ H, (HCCOOH) ₂	100	80			A	A			A	A	B					
Maleic anhydride	(COCH) ₂ O	100	20	0.930		A	A			A	D	D	A				
Malic acid	CO ₂ H-CH ₂ O-CH ₂ -CO ₂ H	50	20			A	A		A	A							A
Malic acid	CO ₂ H-CH ₂ O-CH ₂ -CO ₂ H	100	20			B	A			A	A	A	A				
Malic acid	CO ₂ H-CH ₂ O-CH ₂ -CO ₂ H	100	60			B	A			A	A	A	A				
Manganese (II) chloride	MnCl ₂	10	20	1.060													
Manganese (II) chloride	MnCl ₂	20	20	1.190			D			A							A
Manganese (II) chloride	MnCl ₂	100	20	2.980													
Manganese chloridehydrate	MnCl ₂ +4H ₂ O	100	20	2.010													
Manganese nitrate	Mn(NO ₃) ₂ +6H ₂ O	100	20											A	C		

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm ³)	Visc (cSt)	Material code										
						A	S	C	P	T	E	N	V	U	K	
Manganese sulphate	MnSO4+4H2O	20	20	1.220		A	A			A	A	A	A		A	
Manganese sulphate	MnSO4+4H2O	30	20	1.220		A	A			A	A	A	A			
Manganese sulphate	MnSO4+4H2O	100	20	2.090		A	A			A	A	A	A			
Manganese sulphate	MnSO4+4H2O	100	80			A	A			A	A	B	A			
Marmelade (Jam)		100	20					A				A				
Mash		100	20				A					A				
Mayonnaise		100	20	1.0	5000.0	D	A	D	A			A	A			
Meat extract		100	20	1.0	22000.0		A					A	A			
Melamine	C3H6N6	100	20		420-1000		D	D				C				
Mercuric chloride	HgCl2	100	20	7.150		D	D	D	A	A	A	A	A			
Mercuric cyanide, saturated	Hg(CN)2	100	20			D	A		A	A	A	A	A			
Mercuric nitrate	Hg(NO3)2	100	20			D	A			A	A	A	A			
Mercuric salts		100	20							A		D	A			
Mercuric sulphate, saturated	Hg2SO4	100	20							A	A	A	A			
Mercury	Hg	100	20	13.60		D	A	A	A	A	A	A	A	A	A	
Mesityl oxide (Isopropylidene acetone)	(CH3)2CCHCOCH3, C6H10O	100	20	0.850		A	A				B	D	D	D		
Meta cresol	CH3C6H4OH	100	20	1.030												
Methane	CH4	100	20	0.72		A	A		A	A	A	A	A	B		
Methane sulphonic acid	CH3SO2OH	50	20							A						
Methanol	C10H19OH	100	20	0.800		A	A		A	A		A		D		
Methanol (Methyl alcohol), pure	CH3OH	100	20	0.790	0.8	A	A	A	A	A	A	B	B	D	A	
Methanol (Methyl alcohol), pure	CH3OH	100	40			A	A	A	A	A	A	C	B	D		
Methanol (Methyl alcohol), pure	CH3OH	100	60			A	A	A	A	A	A	D	C	D		
Methanol (Methyl alcohol), pure	CH3OH	100	80			A	A	A		A	B	D	C	D		
Methyl acetate, pure	CH3CO2CH3	100	20	0.930		B	A		A	A	B	D	D	D		
Methyl acetate, pure	CH3CO2CH3	100	40			B	A		A	A	C	D	D	D		
Methyl acetate, pure	CH3CO2CH3	100	60			B	A			A		D	D			
Methyl acetate, pure	CH3CO2CH3	100	80			B	A			A		D	D			
Methyl acetoacetate	CH3COCH2COOCH3	100	20	1.080												
Methyl acetone		100	20				A					D				
Methyl acrylate, pure	CHCHOOCH3, CH2=CHCO2CH3	100	20	0.950		B	A			A	B	D	D			
Methyl acrylate, pure	CHCHOOCH3, CH2=CHCO2CH3	100	40			B	A			A		D	D			
Methyl acrylate, pure	CHCHOOCH3, CH2=CHCO2CH3	100	60			B	A			A		D	D			
Methyl acrylate, pure	CHCHOOCH3, CH2=CHCO2CH3	100	80			B	A			A		D	D			
Methyl acrylic acid	CH2=C(CH3)COOH, C4H6O2	100	20	1.020							C		B			
Methyl amine	CH3NH2+H2O	32	20	0.700		A	A		A	A		D				

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code														
						A	S	C	P	T	E	N	V	U	K					
Methyl amine	CH3NH2+H2O	40	25	0.890																
Methyl amine	CH3NH2	100	20	0.660			A			A	A	C								
Methyl amine	CH3NH2	100	40				A			A										
Methyl aniline	C7H9N, C6H4(CH3)NH2	100	20	1.000							D	D	A							
Methyl bromide	CH3Br	100	20	1.730		D	A			A	B	D	A							
Methyl butyl ketone	CH3CO(CH2)3CH3	100	20				A				A	D	D	D						
Methyl cellosolve	CH3OCH2CH2OH	100	20	0.970		B	B			A	B	D	D	D						
Methyl cellulose		100	20								B	D	D							
Methyl chloride	CH3Cl	100	20	0.921	11.0	D	A	A		A	B	D	D	D						
Methyl chloride	CH3Cl	100	25	1.790		D	A	A		A	B	D	D	D						
Methyl chloroform (1, 1, 1- Trikloretan)	CH3CCl3	100	20	1.340			A	A		A	D	D	B							
Methyl chloroformate	CH3OCOCI	100	20	1.220																
Methyl cyclohexanol	C7H13OH	100	20	0.920																
Methyl cyklopentane	C6H12	100	20				A			A	D	D	A	D						
Methyl dichloride		100	20								D	D	A	D						
Methyl ether	C2H6O	100	20	0.670							D	B	D	D						
Methyl ethyl carbinol	CH3CH2CH(OH)CH3	100	20	0.810																
Methyl ethyl ketone	CH3COCH2CH3, CH3COC2H5	100	20	0.805	0.5	B	A		A	A	B	D	D	D						
Methyl ethyl ketone	CH3COCH2CH3, CH3COC2H5	100	40			B	A			A	C	D	D	D						
Methyl ethyl ketone	CH3COCH2CH3, CH3COC2H5	100	60			B	A			A		D	D	D						
Methyl fenylendiisocyanate	CH3C6H3(NCO)2	100	20	1.220	5.0															
Methyl formate	HCO2CH3	100	20	0.970		A	B			A	A	D	D	D						
Methyl glycol	C3H8O2, (CH2)2OHOCH3	100	20	0.970						A	A	A	A							
Methyl isobutyl carbinol	CH3CHOHCH2CH(CH3)2	100	20	0.810						A	A	A	A							
Methyl isobutyl ketone	(CH3)2CHCH2COCH3	100	20	0.800		A	A		A	A	B	D	D	D						
Methyl isobutyl ketone	(CH3)2CHCH2COCH3	100	40			A	A			A		D	D	D						
Methyl isobutyl ketone	(CH3)2CHCH2COCH3	100	60			A	A			A		D	D							
Methyl isobutyl ketone	(CH3)2CHCH2COCH3	100	80			A	A			A		D	D							
Methyl isopropyl ketone	CH3CNOHCH(CH3)2	100	20				A			A	D	D	D							
Methyl isopropyl ketone	CH3CNOHCH(CH3)2	100	40				A			A	D	D	D							
Methyl isopropyl ketone	CH3CNOHCH(CH3)2	100	60				A			A	D	D	D							
Methyl isopropyl ketone	CH3CNOHCH(CH3)2	100	80				A			A	D	D	D							
Methyl mercaptan	CH3SH	100	20	0.870																
Methyl methacrylate	CH2=C(CH3)COOCH3	100	20	0.940		B	B			A	A	D	D	D						
Methyl methacrylate	CH2=C(CH3)COOCH3	100	40			B	B			A	A	D	D	D						
Methyl methacrylate	CH2=C(CH3)COOCH3	100	60			B	B			A	A	D	D	D						

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code														
						A	S	C	P	T	E	N	V	U	K					
Methyl methacrylate	CH ₂ =C(CH ₃)COOCH ₃	100	80			B	B			A	D	D	D							
Methyl oleate		100	20								C	D	A							
Methyl parathion	(CH ₃ O) ₂ P(S)OC ₆ H ₄ NO ₂	100	20																	
Methyl propane	(CH ₃) ₃ CH	100	20																	
Methyl salicylate	C ₈ H ₈ O ₃	100	20	1.185		A			A	C										
Methyl sulfoxide		100	20							A										
Methyl sulphate	(CH ₃ O) ₂ SO ₂	100	20	1.330																
Methyl sulphide	(CH ₃) ₂ S	100	20	0.850																
Methylene bromide	CH ₂ Br ₂	100	20					A	A	D	D	A								
Methylene chloride (Dichloromethane)	CH ₂ Cl ₂	100	20	1.330	1.0	A	A	A	A	D	D	C	D							
Methylene dichloride	CH ₂ Cl ₂	100	20	1.330			A			A	D	D	B							
Methylene iodine	CH ₂ I ₂	100	20							A			A							
Milk		100	20	1.040	2.0	A	A	D	A	A	A	A	A							
Mineral oil		100	20			A	A	A	A	A	D	A	A							
Mineral oil		100	40			A	A	A		A	D									
Mineral oil		100	60			A	A	A		A	D									
Mineral oil, free of aromatic compounds		100	20																	
Mineral water		100	20						A	A		A	A							
Molasses		100	20	1.4	2600	A	A	A	A	A		A	A	D						
Molasses wort		100	20							A		A								
Monoamylamine	CH ₃ (CH ₂) ₄ NH ₂	100	20	0.760																
Monobromobenzene		100	20																	
Monobutylamine	(CH ₃) ₂ CHCH ₂ NH ₂	100	20	0.730																
Monobutylamine	CH ₃ (CH ₂) ₃ NH ₂ , C ₄ H ₉ NH ₂	100	20	0.730																
Monobutylamine	CH ₃ CH(NH ₂)C ₂ H ₅	100	20	0.720																
Monobutylamine	C(CH ₃) ₃ NH ₂	100	20	0.700																
Monochloroacetic acid	CH ₂ ClCO ₂ H	50	20			D	D	D	A	A	C	D	B							
Monochloroacetic acid	CH ₂ ClCO ₂ H	50	40			D	D	D	A	A		D	D							
Monochloroacetic acid	CH ₂ ClCO ₂ H	50	60			D	D	D	A	A		D	D							
Monochloroacetic acid	CH ₂ ClCO ₂ H	100	20	1.580		D	D	D	A	A	B	D	D							
Monochloroacetic acid ethyl ester	ClCH ₂ COOC ₂ H ₅	100	20			D				A		D	A							
Monochloroacetic acid methyl ester	ClCH ₂ COOCH ₃	100	20							A		D	A							
Monochlorobenzene (Chlorobenzene)	C ₆ H ₅ Cl	100	20	1.110		A	A	D		A	D	D	A	D						
Monochlorobenzene (Chlorobenzene)	C ₆ H ₅ Cl	100	40			A	A	D		A	D	D		D						
Monochlorobenzene (Chlorobenzene)	C ₆ H ₅ Cl	100	60			A	A	D		A	D	D								
Monochlorobenzene (Chlorobenzene)	C ₆ H ₅ Cl	100	80			A	A	D		A	D	D								

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code														
						A	S	C	P	T	E	N	V	U	K					
Monochlorobenzol	C6H5Cl	100	20	1.110		A	A	D		A	D	D	A							
Monochlorophenol	C6H4OHCl	100	20	1.300																
Monoethanolamine	NH2CH2CH2OH	100	20	1.020		A	A		A	A	A	A	D	C						
Monoisopropanolamine	H2NCH2CH(CH3)OH	100	20	0.960																
Monomethyl ether	(CH3)2O, C2H6O	100	20	0.670							A	A	A							
Monomethylamine	CH3NH2	100	20	0.660																
Monomethylaniline	C7H9N	100	20										D	D	A					
Monomethylethanolamine	H3CNHCH2CH2OH	100	20	0.940																
Monwilit D		100	20																	
Morpholine	NH(C2H4)2O, OCH2CH2NHCH2CH2	100	20	1.000	5.0	A	A		A	A			D	A						
Motor oil		100	20	0.900		A	A			A	D	A	A							
Mustard		100	20			B	A	D	A				B	A						
Mustard gas	(CH2Cl-CH2)2S	100	20							A										
Myrtle oil		100	20				A							A						
Naphta	CnH2n+2	100	20	0.8	1.25	A	A	A	A	A	D	C	A	C						
Naphta	CnH2n+2	100	40			A	A	A		A	D			C						
Naphta	CnH2n+2	100	60			A	A	A		A	D									
Naphta	CnH2n+2	100	80			A	A	A		A	D									
Naphtalene	C10H8	100	20	1.140	0.7	A	A	A	A	A	D	D	A	B						
Naphtalene	C10H8	100	20	1.140		A	A	A	A	A	D	D	A	B						
Naphtalene, pure	C10H8	100	20	1.150		A	A	A		A	D	D	A	B						
Naphtalenesulphonic acid	C10H7SO3H	10	20	1.030		A	A			A										
Naphtalenesulphonic acid	C10H7SO3H	100	20	1.450		A	A		A	A										
Napthenic acid		100	20			B	A			A	D	B	A							
Natural gas		100	20			A	A			A	D	A	A	B						
Neatsfoot oil		100	20			A	A					C	A	A						
Neville-winter acid		100	20									C	C	A						
Nickel acetate		100	20									A	A	A	C					
Nickel carbonyle	Ni(CO)4	100	25	1.318																
Nickel chloride	NiCl2	20	20	1.220		D	A	D		A	A	A	A							
Nickel chloride, saturated	NiCl2	100	20			D	C	D	A	A	A	A	A							
Nickel nitrate	Ni(NO3)2, Ni(NO3)2+6H2O	10	20	1.050		D	A			A	A	A	A							
Nickel nitrate	Ni(NO3)2, Ni(NO3)2+6H2O	35	20	1.380		D	A			A	A	A	A							
Nickel nitrate, saturated	Ni(NO3)2, Ni(NO3)2+6H2O	100	20	2.050		D			A	A	A	A	A							
Nickel nitrate, saturated	Ni(NO3)2, Ni(NO3)2+6H2O	100	80			D				A	A	B	A							
Nickel salts		100	20																	

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code														
						A	S	C	P	T	E	N	V	U	K					
Nickel sulphate, saturated	NiSO4, NiSO4+7H2O	10	25	1.060		D	B	D		A	A	A	A	A						
Nickel sulphate, saturated	NiSO4, NiSO4+7H2O	100	20	1.950		D	B	D	A	A	A	A	A	A						
Nickel sulphate, saturated	NiSO4, NiSO4+7H2O	100	80			D	B	D		A	A	A	A							
Nickel, plating solution		100	20							A	A	A	A							
Nicotine	C10H14N2	100	20	1.009					A	A										
Nicotine	C10H14N2	100	40							A										
Nicotinic acid	C6H5NO2	100	20			A	A			A	A	D	B							
Nitroaniline	C6H4NO2NH2	100	20	1.140						A										
Nitric acid	HNO3	5	20	1.030		D	A	D	A	A	A	D	A	C						
Nitric acid	HNO3	6,3	20																	C
Nitric acid	HNO3	10	20	1.050	5.0	D	A	D		A	A	D	A	C	A					
Nitric acid	HNO3	10	60			D	A	D		A	B	D	A							
Nitric acid	HNO3	10	80			D	A	D		A	D	D	A							
Nitric acid	HNO3	20	20	1.120			A	D		A	D	D	A	C						
Nitric acid	HNO3	30	20	1.180		D	A	D		A	B	D	A	C	A					
Nitric acid	HNO3	30	60			D	D	D		A	D	D	B							
Nitric acid	HNO3	30	80			D	A	D		A	D	D	C							
Nitric acid	HNO3	40	20	1.250		D	A	D		A	D	D	A	C						
Nitric acid	HNO3	50	20	1.310		D	A	D		A	D	D	A	C	A					
Nitric acid	HNO3	50	40			D	A	D		A	D	D	B	C						
Nitric acid	HNO3	50	60			D	A	D		A	D	D	C							
Nitric acid	HNO3	50	80			D	A	D		A	D	D	D							
Nitric acid	HNO3	65	20	1.480	5.0	C	A	D		A	D	D	A							
Nitric acid	HNO3	70	20	1.410		D	A	D		A	D	D	C		A					
Nitric acid	HNO3	70	40			D	A	D		A	D	D	D							
Nitric acid	HNO3	70	60			D	A	D		A	D	D	D							
Nitric acid	HNO3	70	80			D	A	D		A	D	D	D							
Nitric acid	HNO3	80	20	1.452				D		A	D	D	C							
Nitric acid	HNO3	98	20			A	D	D		A	D	D	C							
Nitric acid	HNO3	98	40			A	D	D			D	D								
Nitric acid	HNO3	99	20	1.500		A	D	D		A	D	D								
Nitric acid	HNO3	100	20																	D
Nitric acid, red, fuming	HNO3+N2O4+H2O, HNO3+NO2	100	20	1.490		A	A	D		A	D	D	C	D						
Nitrobenzene (Nitrobenzol)	C6H5-NO2	100	20	1.200	2.0	A	B	C	A	A	B	D	A							
Nitrobenzene (Nitrobenzol)	C6H5-NO2	100	40			A	B	C		A	B	D	A							
Nitrobenzene (Nitrobenzol)	C6H5-NO2	100	60			A	B	C		A	B	D	A							

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code											
						A	S	C	P	T	E	N	V	U	K		
Nitroethane, pure	C2H5NO2	100	20	1.050		A	A			A	A	D	D				
Nitrogen	N2	100	20			A	A		A	A		A	A	A			
Nitrogen dioxide	NO2	100	20	1.450						A							
Nitrogen dioxide	NO2	100	40							A							
Nitrogen tetroxide	N2O4	100	20	1.450								D	D	D			
Nitromethane, pure	CH3NO2	100	20	1.140		A	A			A	B	D	D				
Nitrophenol	NO2C6H4OH	100	20														
Nitropropane	CH3(CH2)2NO2	100	20	1.000			A							D			
Nitrose acid		100	20	1.700			A										
Nitrotoluene	C6H4CH3NO2	100	20	1.160		A			A	A		D	D				
Nitrous acid	HNO2	10	20			A	A			A	B	D	A				
Nitrous oxide	(N2O)	100	20							A	A		A				
Nitrous oxide	(N2O)	100	80							A	B		A				
Nonan	C9H20	100	20	0.720													
Nonanol	C9H19OH	100	25	0.824													
Nonyl phenol	C6H4(C9H19)OH	100	20	0.950													
Octane	C8H18	100	20	0.700					A	A	D	A	A				
Octanol	C6H13CHOHCH3, C8H18O	100	20	0.830													
Octene (Diisobutylene), pure	(CH3)3C=CH2-C(CH3)=CH2, C8H16	100	20			B	B			A	D	A	A				
Octyl alcohol (Octanol)	C4H9CH(C2H5)CH2OH, C8H18O	100	20			A	A	A		A	A	B	A				
Oil, animal, vegetable		100	20	0.92	90	A	A	C	A	A		A	A				
Oleic acid (Red oil)	C17H33COOH	100	20	0.900		A	A	C	A	A	D	D	A	B			
Oleum (fuming sulfuric acid)	H2SO4+SO3	100	20	1.910			A	D		A	D	D	D	D	A		
Olive oil		100	20	0.910		A	A	A	A	A	B	A	A				
Orange oil		100	20				A					A	A				
Ortho cresol	CH3C6H4OH	100	20	1.050													
Oxalic acid	(COOH)2, (COOH)2+2H2O	10	20	1.020			A	C	A	A	A	A	A				
Oxalic acid	(COOH)2, (COOH)2+2H2O	15	20	1.030			A	C	A	A	A	A	A				
Oxalic acid	(COOH)2, (COOH)2+2H2O	20	20				A	C	A	A	A	A	A				
Oxalic acid	(COOH)2, (COOH)2+2H2O	50	20				A	C	A	A	A	A	A				
Oxalic acid	(COOH)2, (COOH)2+2H2O	100	20			A	A	C	A	A	A	A	A				A
Oxalic acid, saturated	(COOH)2, (COOH)2+2H2O	100	20	1.650		A	A	C	A	A	A	A	A				A
Oxygen	O2	100	20	1.140		A	A			A	A	A	B	A	A		
Ozone	O3	100	20			B	A			A	A	D	A	A			
Palm oil (Palm nut oil)		100	20				A	A	A			A	A				
Palm oil emulsion		100	20	0.92	50.0												

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code												
						A	S	C	P	T	E	N	V	U	K			
Palmitic acid	C15H31-COOH, C16H32O2	5	20			A	A			A	B	A	A	A				
Palmitic acid	C15H31-COOH, C16H32O2	10	20			A	A			A	B	A	A	A				
Palmitic acid	C15H31-COOH, C16H32O2	70	20			A	A			A	B	A	A	A				
Palmitic acid	C15H31-COOH, C16H32O2	70	80			A	A			A								
Palmitic acid	C15H31-COOH, C16H32O2	100	20			A	A		A	A	B	A	A					
Para cresol	CH3C6H4OH	100	20	1.030														
Paraffin emulsion		100	20	0.9	3000.0				A	A		A	A					
Paraffin oil	CnH2n	100	20	0.870	28-180	A			A	A		A	A					
Paraffin, photogene, kerosene		100	20	0.780	2.5	A	A		A	A	D	A	B					
Parathion	(C2H5O)2PSOC6H4NO2	100	20	1.260														
Peanut oil		100	20	0.910		A	A	A	A	A	D	A	A	B				
Pentachlorophenol	C6Cl5OH	100	20	1.980	5.0													
Pentane (N-Pentane)	C5H12, CH3(CH2)3CH3	100	20	0.620	15.0		A	A			D	A	A	D				
Peppermint oil		100	20				A		A			D	A					
Peracetic acid	CH3COO-OH	100	20	1.230		D	A			A								
Perchloric acid	HCIO4	3	20	1.020		D	D		A	A		D	A	D				
Perchloric acid	HCIO4	10	20	1.060		D	D		A	A	B	D	A	D				
Perchloric acid	HCIO4	10	40			D	D			A		D		D				
Perchloric acid	HCIO4	10	60			D	D			A		D						
Perchloric acid	HCIO4	50	20	1.400		D	D			A		D	A	D				
Perchloric acid	HCIO4	70	20	1.550		D	D			A		D	A	D				
Perchloric acid	HCIO4	72	20	1.700		D	D			A		D	A	D				
Perchloroethylene, pure	C2Cl4	100	20	1.623	1.0	A	A	A		A	D	D	A	D	A			
Perphosphate		100	20							A	A	A	A					
Petroleum		100	20			A			A	A		A	A					
Petroleum ether (Light petrol)		100	20	0.630		A	A		A	A	D	A	A					
Phenol (Carbolic acid)	C6H5OH	10	20			A	A	D	A	A	A	D	A	C				
Phenol (Carbolic acid)	C6H5OH	50	20			A	A	D	A	A	A	D	A	C				
Phenol (Carbolic acid)	C6H5OH	90	20			A	A	D	A	A	A	D	A	C				
Phenol (Carbolic acid)	C6H5OH	100	20	1.070	10.0	A	A	D	A	A	A	D	B	C				
Phenol (Carbolic acid)	C6H5OH	100	40			A	A	D		A		D		C				
Phenol (Carbolic acid)	C6H5OH	100	60	1.04	6.0	A	A	D		A		D						
Phenol (Carbolic acid)	C6H5OH	100	80			A	A	D		A		D						
Phenol dicarbonate		100	25	1.130														
Phenol ether	C12H10O	100	20															
Phenol flaleine	C20H14O4	100	25	1.280														

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code																							
						A	S	C	P	T	E	N	V	U	K														
Phenyl	C6H5	100	20																										
Phenyl benzene	C6H5-C6H5	100	20																	D	A	D							
Phenyl bisulfide, pure		100	20																	A	D	C	A						
Phenyl bisulfide, pure		100	60																	A	D	D							
Phenyl ethanol amine	C6H5NHCH2CH2OH	100	20	1.100																									
Phenyl ethyl ether	C6H5OC2H5	100	20																			D	D	D					
Phenyl hydrazine	C6H5NHNH2	100	20	1.100																		A	B	D	D	D			
Phenyl hydrazine chlorhydrate		100	20																			A	A		A	A			
Phorone (Diisopropylideneacetone)	C9H14O	100	20																							D			
Phosgene, gas	COCl2	100	20	1.420	1.0																								
Phosgene, liquid	COCl2	100	20	1.400		D																A		D	A	A			
Phosphoric acid	H3PO4	10	20	1.050		D	B	D	A	A	A	A	A	A	A	A	A	B	A							A			
Phosphoric acid	H3PO4	10	60			D	B	D														A	A	B	A	A			
Phosphoric acid	H3PO4	10	80			D	B	D														A	A	C	A	A			
Phosphoric acid	H3PO4	20	20	1.120		D	B	D	A	A	B	C	A	B	A											A			
Phosphoric acid	H3PO4	30	20	1.180		D	B	D	A	A	B	D	A	B	A											A			
Phosphoric acid	H3PO4	40	20	1.370		D	B	D	A	A	B	D	A	B	A											A			
Phosphoric acid	H3PO4	50	20			D	B	D	A	A	A	A	A	A	C	A										A			
Phosphoric acid	H3PO4	50	60			D	B	D														A	A	C	A	A			
Phosphoric acid	H3PO4	50	80			D	B	D														A	A	D	A				
Phosphoric acid	H3PO4	60	20			D	B	D	A	A	A	C	A	C															
Phosphoric acid	H3PO4	70	20	1.530		D	B	D	A	A	A	C	A	C	A											A			
Phosphoric acid	H3PO4	80	20	1.700		D	B	D	A	A	A	A	A	C	A											A			
Phosphoric acid	H3PO4	80	40			D	B	D	A	A	A	B	A	C	A											A			
Phosphoric acid	H3PO4	80	60			D	B	D														A	A	D	A	A			
Phosphoric acid	H3PO4	85	20	1.690		D	B	D	A																	C	A		
Phosphoric acid	H3PO4	95	20	1.800		D	B	D														A		D	A	C	A		
Phosphoric acid	H3PO4	100	20	1.840		D	B	D																		C	A		
Phosphorous hydride (Phosphine)	PH3	100	20	0.756																		A		D	A				
Phosphorus oxychloride	POCl3	100	20	1.645		A	A																						
Phosphorus pentachloride	PCl5	100	20	1.600		A	A																						
Phosphorus pentasulphide	P2S5	100	20	2.030																									
Phosphorus pentoxide, powder	P2O5	100	20	2.390																		A		A	A		D		
Phosphorus sulphide	P4S3	100	20	2.030																									
Phosphorus thiochloride	PSCl3	100	25	1.630																									
Phosphorus trichloride, pure	PCI3	100	20	1.574		D	A																				A	D	D

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm ³)	Visc (cSt)	Material code											
						A	S	C	P	T	E	N	V	U	K		
Phosphorus, red		100	20								A						
Phosphorus, yellow	P4	100	20	1.800							A						
Photogene, kerosene, paraffin		100	20	0.780	2.5		A	A	A	A	A	D	A	A			
Photographic developer	C6H4(OH)2	100	20			A	A	D	A	A	A	A	A				
Photographic emulsion		100	20														
Photographic fixer	Na2S2O3	40	20	1.380			A						A				
Photographic fixer		100	20														
Phthalic acid	C6H4(COOH)2+H2O	50	20			A			A	A	A	A	A	A			A
Phthalic acid	C6H4(COOH)2, C6H4(CO2H)2	100	20	1.600		A			A	A	A	A	A	A			
Phthalic anhydride	C6H4(CO2)2O2	100	20	1.527							A						A
Phthalic anhydride, powder	C6H4(CO2)2O2	100	20	1.527							A						A
Pickling solution (steel)		100	20			C	C			A	D		B	C			
Pickling solution (steel)		100	80			C	C			A	D		B				
Picric acid	C6H2(NO2)3OH, HOC6H2(NO2)3	1	20			A	A	A	A	A			D	A	B		
Picric acid	C6H2(NO2)3OH, HOC6H2(NO2)3	10	20				A	A		A	A		B	A	B		
Picric acid	C6H2(NO2)3OH, HOC6H2(NO2)3	10	60				A	A		A	A		C	A			
Picric acid	C6H2(NO2)3OH, HOC6H2(NO2)3	10	80				A	A		A	B		D	B			
Picric acid	C6H2(NO2)3OH, HOC6H2(NO2)3	50	20			A	A	A					D	A	B		
Picric acid	C6H2(NO2)3OH, HOC6H2(NO2)3	100	20	1.767		C	A	A									
Pinene		100	20									D	B	A	B		
Polyethylene glycol		100	20								A	A		A			
Polyethylene glycol		100	80								A	A		A			
Polyvinyl acetate	(CH2CHCOOCH3)n	100	20								A	A	A	A			
Polyvinyl alcohol		100	20	1.2							A	A	A	A			
Potash	KCO3	100	20				A	C			A	A	A	A	B		
Potash (Potassium carbonate)	K2CO3	100	20												B		
Potash alum	KAl(SO4)2	100	20			A					A	A	A	A			
Potash alum	KAl(SO4)2	100	80			A					A	A	B	A			
Potassium	K	100	20	0.860													
Potassium acetate, saturated	CH3CO2K	100	20			D	A		A	A	A	A	A	A	D	A	
Potassium aluminium sulphate (Alum)	KAl(SO4)2	50	20	1.740		A			A	A	A	A	A				
Potassium aluminium sulphate (Alum)	KAl(SO4)2	100	20				A				A	A	A	A			
Potassium bicarbonate, saturated	KHCO3	100	25	2.170		D	B	A			A	A	A	A			
Potassium bichromate	K2Cr2O7	25	25	1.050		A	A	A	A	A	A	A	A	A			
Potassium bichromate	K2Cr2O7	40	20			A	A	A	A	A	A	A	A	A			
Potassium bichromate, saturated	K2Cr2O7	100	25	2.680		A	A	A			A	A	A	A			

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code															
						A	S	C	P	T	E	N	V	U	K						
Potassium bifluoride	KHF2, KF+2H2O	100	25	2.450			A														
Potassium bisulphate	KHSO4	5	25	1.035			D		A	A	A	A	A								
Potassium bisulphate	KHSO4	12	20	1.090		A	D			A	A	A	A								
Potassium bisulphate	KHSO4	100	20	2.320			D			A	A	A	A								
Potassium bisulphate	KHSO4	100	80				D			A	A	B	A								
Potassium bisulphite	KHSO3	100	20				D	A		A	A										
Potassium bitartrate (Tartar)	KHC4H4O6	100	20			A				A	A	A	A								
Potassium borate	K3BO3	10	20							A	A	A	A								
Potassium borate	K3BO3	100	20							A	A	A	A								
Potassium borhydride, powder	KBH4	100	20	1.180																	
Potassium bromate	KBrO3	100	20							A	A	A	A								
Potassium bromate	KBrO3	100	80							A	A	A	A								
Potassium bromide	KBr	100	20	1.374		A	B			A	A	A	A								
Potassium bromide	KBr	100	25	2.750		A	B			A	A	A	A								
Potassium carbonate (Potash)	K2CO3	20	25	1.190		D	A	A	A	A	A	A	A	B	A						
Potassium carbonate (Potash)	K2CO3	100	25	2.420		D	A	A		A	A	A	A	B	A						
Potassium chlorate	KClO3	50	20			A	A			A	A		A								
Potassium chlorate, aqueous	KClO3	100	25	2.320		C	A			A	A	C	A								
Potassium chlorate, aqueous	KClO3	100	80			C	A			A											
Potassium chloride	KCl	20	20	1.130		D	A	A	A	A	A	A	A	A							
Potassium chloride	KCl	100	20	1.980		D	A	A	A	A	A	A	A	A							
Potassium chromate	K2CrO4	40	20			A	B	A	A	A	A	A	A								
Potassium chromate	K2CrO4	100	20	2.730		B	B	A	A	A	A	A	A								
Potassium chromate	K2CrO4	100	60			B	B	A		A	A	A	A								
Potassium chromate	K2CrO4	100	80			B	B	A		A	A	B	A								
Potassium chromsulphate	KCr(SO4)2+12H2O	100	20	1.830		A	A														
Potassium coppercyanide		100	20							A	A	A	A								
Potassium coppercyanide		100	80							A	A		A								
Potassium cyanate	KOCN	100	20	2.060																	
Potassium cyanide	KCN	38	20	1.180		D	A	A		A	A	A	A								
Potassium cyanide	KCN	50	20	1.310		D	A	A		A	A	A	A							A	
Potassium cyanide	KCN	100	20	1.520		D	A	A	A	A	A	A	A								
Potassium cyanide	KCN	100	80			D	A	A		A											
Potassium dichromate, saturated	K2Cr2O7	100	20			A	A	A		A	A	A	A	A							
Potassium dichromate, saturated	K2Cr2O7	100	80			A	A	A		A	A	B	A								
Potassium ferricyanide	K3Fe(CN)6	20	20	1.110						A	A	A	A								A



Chemical guide

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code														
						A	S	C	P	T	E	N	V	U	K					
Potassium ferricyanide	K3Fe(CN)6	50	20	1.850						A	A	A	A							
Potassium ferricyanide	K3Fe(CN)6	100	20							A	A	A	A							
Potassium ferrocyanide	K4Fe(CN)6	16	20	1.110		A				A	A	A	A							A
Potassium ferrocyanide	K4Fe(CN)6	50	20	1.930						A	A	A	A							
Potassium ferrocyanide	K4Fe(CN)6	100	20	1.850						A	A	A	A	A						
Potassium fluoride	KF	45	20	1.460		A				A	A	A	A	A						A
Potassium fluoride	KF	100	20							A	A	A	A							
Potassium fluoride	KF	100	80							A	A	B	A							
Potassium hydrogen fluoride	KHF2	40	20			D	A			A										
Potassium hydrogen fluoride	KHF2	100	20	2.370																
Potassium hydroxide (Caustic potash)	KOH+H2O	20	20	1.190		D	B	C	A	A	A	B	D	B	A					
Potassium hydroxide (Caustic potash)	KOH+H2O	25	20			D	B	C	A	A	A	B	D	B	A					
Potassium hydroxide (Caustic potash)	KOH+H2O	25	60			D	B	C		A	A	C	D		A					
Potassium hydroxide (Caustic potash)	KOH+H2O	25	80			D	B	C		A	A	D	D		A					
Potassium hydroxide (Caustic potash)	KOH+H2O	30	20	1.290		D	B	C	A	A	A	B	D	B	A					
Potassium hydroxide (Caustic potash)	KOH+H2O	45	20	1.470		D	B	C	A	A	A	D	D	B	A					
Potassium hydroxide (Caustic potash)	KOH+H2O	50	25	1.510		D	B	C	A	A	A	D	D	B	A					
Potassium hydroxide (Caustic potash)	KOH+H2O	60	20	1.630		D	B	C	A	A	A	D	D		A					
Potassium hydroxide (Caustic potash)	KOH	100	20	2.044																
Potassium hypochlorite	KClO	100	20	1.200	1.0					A	A	B	A							
Potassium iodate	KIO3	6	20	1.050						A										
Potassium iodate	KI	50	20	1.550		A				A	A	A	A							
Potassium iodate	KI	100	20	3.130		D				A	A	A	A							
Potassium iodate	KI	100	80			D				A	A	B	A							
Potassium monophosphate	K3PO4	100	20				A	D				A								
Potassium nitrate	KNO3	10	20	1.080		A	A		A	A	A	A	A	A						
Potassium nitrate	KNO3	24	20	1.170		A	A		A	A	A	A	A	A	A					
Potassium nitrate	KNO3	50	20			A	A								A					
Potassium nitrate	KNO3	100	20	2.106		A	B			A	A	A	A	A						
Potassium nitrate	KNO3	100	80			A	B			A	A	B	A							
Potassium nitrite	KNO2	18	20			A			A	A					A	A				
Potassium oxalate	K2(CO2)2, K2C2O4+H2O	15	20	1.170		A														
Potassium oxalate	K2(CO2)2, K2C2O4+H2O	100	20	2.130		A														
Potassium perborate		100	20									A								
Potassium perchlorate	KClO4	1,7	20	1.010		A				A	A		A	A						A
Potassium perchlorate	KClO4	100	20	2.520								A	A							

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm ³)	Visc (cSt)	Material code															
						A	S	C	P	T	E	N	V	U	K						
Potassium perchlorate	KClO ₄	100	20								A										
Potassium perchlorate	KClO ₄	100	80								A										
Potassium permanganate	KMnO ₄	6	20	1.040		A	B	A	A	A	A	D	A								
Potassium permanganate	KMnO ₄	10	20				B	A	A	A	A	C	A								
Potassium permanganate	KMnO ₄	10	60				B	A		A	B		A								
Potassium permanganate	KMnO ₄	20	20	1.040			B	A	A	A	A	D	A								
Potassium permanganate	KMnO ₄	25	20				B	A		A	A	D	A								
Potassium permanganate	KMnO ₄	25	80				B	A		A		D									
Potassium permanganate	KMnO ₄	100	20	2.703			B	A		A			A								
Potassium peroxide	K ₂ O ₂	100	20																		
Potassium persulphate	K ₂ S ₂ O ₈	100	20	2.480		D	A		A	A		D	A								
Potassium phosphate	KH ₂ PO ₄ , K ₂ HPO ₄	10	20			D	A			A		A									
Potassium phosphate	KH ₂ PO ₄ , K ₂ HPO ₄	100	20																		
Potassium silicate	K ₂ SiO ₃	100	20			A				A											A
Potassium sulphate, pure	K ₂ SO ₄	10	20	1.080		A	A	A	A	A	A	A	A	A	A	A					
Potassium sulphate, pure	K ₂ SO ₄	100	20	2.660		A	B	A		A	A	A	A	A							
Potassium sulphate, pure	K ₂ SO ₄	100	80			A	B	A		A	B		A								
Potassium sulphide	K ₂ S	45	20	1.430		D	A			A											A
Potassium sulphide	K ₂ S	100	15	1.805																	
Potassium sulphite	K ₂ SO ₃	20	20	1.180		A	A														A
Potassium tartrate	KHC ₄ H ₄ O ₆	100	20			A				A	A	A	A								
Potassium thiocyanide	KCNS	25	20	1.130		A				A											A
Producer gas		100	20			B	B			A		A	A	A							
Propane, gas pure	C ₃ H ₈ , CH ₃ CH ₂ CH ₃	100	20	0.500	0.4	A	A		A	A	D	A	A								
Propane, liquid pure	C ₃ H ₈ , CH ₃ CH ₂ CH ₃	100	20																		B
Propanol	C ₃ H ₇ OH	100	20	0.800																	
Propargyl alcohol	CHCCH ₂ OH	7	20	0.970		A				A	A		A	A							
Propargyl bromide	HC=CCH ₂ Br	100	20	1.570																	
Propene	C ₃ H ₆ , CH ₃ CH=CH ₂	100	20	0.510																	
Propinaldehyde	C ₂ H ₅ CHO	100	30	0.810																	
Propionic acid	C ₂ H ₅ COOH, CH ₃ CH ₂ COOH	25	20	1.030		A	A		A	A	A	D	A								
Propionic acid	C ₂ H ₅ COOH, CH ₃ CH ₂ COOH	50	20			A	A		A	A	A	D	A								
Propionic acid	C ₂ H ₅ COOH, CH ₃ CH ₂ COOH	100	20	0.993	1.0	A	A		A	A	A	D	A								
Propyl acetate (N-Propyl acetate), pure	CH ₃ COO-C ₃ H ₇	100	20	0.890			A	A		A	B	D	D	D							
Propyl acetate (N-Propyl acetate), pure	CH ₃ COO-C ₃ H ₇	100	40				A	A		A		D	D	D							
Propyl acetate (N-Propyl acetate), pure	CH ₃ COO-C ₃ H ₇	100	60				A	A		A		D	D	D							

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						A	S	C	P	T	E	N	V	U	K	
Propyl acetate (N-Propyl acetate), pure	CH3COO-C3H7	100	80				A	A					D	D	D	
Propyl acetone, pure		100	20													
Propyl alcohol, pure	C2H5CH2OH	100	20	0.800		A	A	C	A	A	A	B	A			
Propyl alcohol, pure	C2H5CH2OH	100	60			A	A	C	A	A	A	C	A			
Propyl alcohol, pure	C2H5CH2OH	100	80			A	A	C		A	A	D	A			
Propyl amine	CH3(CH2)2NH2	100	20	0.720												
Propyl glycol	CH2OH-CH2OC3H7	100	20	0.910												
Propyl nitrate	CH3(CH2)2NO3	100	20	1.058		A				A						
Propylene	CH3CH=CH2	100	20	0.510		A	A			A	D	D	A	D		
Propylene chlorohydrin	C3H7ClO	100	20							A						
Propylene dichloride, pure	CH2ClCHClCH3	100	20	1.160								D	D	B		
Propylene glycol(1,2-Propanediol)	(CH2)2OHOCH3, C3H8O2	100	20	1.40	55.0	A	A	A		A	A	A	A			
Propylene oxide	CH2OCHCH3	100	20	0.830		B	A		A	A	D	D	D	D		
Protein solutions		100	20			A	A			A						
Prussic acid (Hydrocyanic acid), solution	HCN	100	20	0.690		A	A	D	A	A	B	B	B	C	A	
Pyrazin hexahydride	HN(CH2CH2)2NH	100	20	1.070												
Pyridine	C5H5N	100	20	0.980	1.0	A	B	A	A	A	B	D	D		A	
Pyridine	C5H5N	100	60			A	B	A		A		D	D			
Pyrogallic acid	C6H3(OH)3	10	25	1.030		A	A						A			
Pyrogallic acid	C6H3(OH)3	100	25	1.430		A	A						A			
Pyroligneous acid	C2H5O2	100	20			D	B			A	C					
Pyrophosphoric acid	H4P2O7	100	20													
Pyrrole	C4H5N	100	20	0.969							D	D		B		
Quinene	C20H24N2O2	100	20						A							
Quinic acid	C7H12O6	100	20	1.640		A	A			A						
Quinic sulphate		100	20													
Quinone (Benzoquinone)	C6H4O2	100	20							A						
Ramasit		100	20													
Rape seed oil (Colza oil)		100	20				A	A		A	A	D	A			
Resin (Rosin)		100	20				A					A				
Resin oil (Rosin oil)		100	20				A					A	A			
Resin solvent		100	20				A					D				
Rhodan salts		100	20							A	A	C	A			
Rhodanic acid	HSCN	100	20													
Rhodium, plating solution		100	20							A	A	A	A			
Rose oil		100	20				A							A		

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code									
						A	S	C	P	T	E	N	V	U	K
Rum		100	20			A					A	A	D		
Rust inhibitor		100	20			A					A	A			
Saccarin solution	C6H4COSO2NH	50	20												
Salad dressing		100	20	1.02	1500.0	A					A	A			
Salicylaldehyde	C7H6O2	100	20	1.172						A	A	A	A		
Salicylaldehyde	C7H6O2	100	60							A					
Salicylaldehyde	C7H6O2	100	80							A					
Salicylic acid	C6H4(OH)CO2H	50	20	1.480		A	A			A	A	A	A		
Salicylic acid	C6H4(OH)CO2H	100	20			D	B			A	A	A	A		
Sesame oil (Sesame seed oil)		100	20			A	A				A	A			
Shellac (Seedlac) (French polish)		100	20			A	A				B				
Silicate ester		100	20							A	D	B	A	A	
Silicic acid (Silica)	H2SiO3	100	20						A	A	A	A	A		
Silicofluoric acid (Fluosilic acid)	H2SiF6	32	20	1.170		D	A		A	A		D	A		A
Silicon	Si	100	20			A				A	A	A			
Silicon grease		100	20							A		A	A	A	
Silicon L-45		100	20			A	A				A	A			
Silicon tetrachloride	SiCl4	100	20	1.490	0.3										
Silicone oil		100	20			A	A	A	A	A	A	A	A	A	
Silikon X-527		100	20			A	A				A	A			
Silver bromide	AgBr	100	25	6.470		D	B								
Silver chloride	AgCl	100	25	5.560											
Silver cyanide	AgCN	100	20						A	A	A	A	A		
Silver nitrate	AgNO3	8	20	1.070		D	A	D	A	A	A	A	A	A	
Silver nitrate	AgNO3	20	20	1.190		D	A	D	A	A	A	A	A	A	
Silver nitrate	AgNO3	100	20	4.350		D	A	D	A	A	A	A	A	A	
Silver nitrate	AgNO3	100	80			D	A	D		A	A	B	A		
Silver salts		100	20												
Silver sulphate	Ag2SO4	100	20							A	A	A	A		
Silver sulphate	Ag2SO4	100	80							A	A	B	A		
Silver, plating solution		100	20			A				A	A	A	A		
Skydrol 500		100	20								A	D	D	D	
Skydrol 7000		100	20								A	D	B	D	
Soap		100	20			C	A			A	A	A	A		
Soap solution		100	20			A	A	A		A	A	A	A	A	
Soda (Sodium karbonate)	Na2CO3	100	20												

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm ³)	Visc (cSt)	Material code														
						A	S	C	P	T	E	N	V	U	K					
Soda lime		100	20																	
Sodium	Na	100	20	0.970						A	A	A	A							
Sodium	Na	100	80							A	A	A	A							
Sodium acetate, saturated	NaCH ₃ COO, NaC ₂ H ₃ O ₂ +3H ₂ O	100	20	1.450		A	B		A	A	A	A	B	D	A					
Sodium acetate, saturated	NaCH ₃ COO, NaC ₂ H ₃ O ₂ +3H ₂ O	100	40			A	B			A	A	A	C	D						
Sodium acetate, saturated	NaCH ₃ COO, NaC ₂ H ₃ O ₂ +3H ₂ O	100	80			A	B			A	A	B								
Sodium alum, saturated		100	20							A	A	A	A							
Sodium alum, saturated		100	80							A	A	B	A							
Sodium aluminate	NaAlO ₂	100	20			D	A			A	A	A	A							
Sodium aluminium sulphate	NaAl(SO ₄) ₂	100	20			A				A										
Sodium arsenate	Na ₂ HAsO ₄ +7H ₂ O	100	25	1.880		D				A										
Sodium arsenite	NaAs, NaAsO ₂	20	20			D	A	D					A							
Sodium arsenite	NaAs, NaAsO ₂	100	20			D	A	D		A			A							
Sodium benzoate	NaC ₆ H ₅ CO ₂	100	20				A			A		A								
Sodium bicarbonate	NaHCO ₃	5	20	1.040		A	A	C	A	A	A	A	A							
Sodium bicarbonate	NaHCO ₃	10	20	1.070		A	A	C	A	A	A	A	A							
Sodium bicarbonate	NaHCO ₃	100	20	2.160		C	A	C		A	A	A	A							
Sodium bichromate, saturated	Na ₂ Cr ₂ O ₇ +2H ₂ O	10	20			A				A	A	A	A		A					
Sodium bichromate, saturated	Na ₂ Cr ₂ O ₇ +2H ₂ O	100	20	2.520						A	A	A	A							
Sodium bichromate, saturated	Na ₂ Cr ₂ O ₇ +2H ₂ O	100	80							A	A	B	A							
Sodium bisulphate	NaHSO ₄ +H ₂ O	10	20	1.080			A	D	A	A	A	A	A							
Sodium bisulphate	NaHSO ₄ +H ₂ O	50	20	1.160		A	A	D		A	A	A	A		A					
Sodium bisulphate	NaHSO ₄ +H ₂ O	100	20	2.100			A	D		A	A	A	A							
Sodium bisulphate	NaHSO ₄ +H ₂ O	100	80				A	D		A	A	A	A							
Sodium bisulphite	NaHSO ₃	10	20	1.100		A	A	D	A	A	A	A	A							
Sodium bisulphite	NaHSO ₃	100	20	1.480		A	A	D	A	A	A	A	A		A					
Sodium bisulphite	NaHSO ₃	100	80			A	A	D		A	A	A	A							
Sodium borate, saturated	Na ₂ B ₄ O ₇ +10H ₂ O	100	20	1.030		A	B			A	A	A	A		A					
Sodium borhydride, powder	NaBH ₄	100	20	1.074																
Sodium bromate	NaBrO ₃	25	20	1.230						A		A								
Sodium bromate	NaBrO ₃	100	20																	
Sodium bromide	NaBr	40	20	1.410		D	C			A		A								
Sodium bromide, saturated	NaBr+2H ₂ O	100	20	2.180		D	C		A	A		A								
Sodium bromite	NaBrO ₂	100	20			D	A			A										
Sodium carbonate (Soda) (Soda Ash)	Na ₂ CO ₃	10	20	1.150		D	A	A	A	A	A	A	A							
Sodium carbonate (Soda) (Soda Ash)	Na ₂ CO ₃	25	20	1.127		D	A	A	A	A	A	A	A							

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code										
						A	S	C	P	T	E	N	V	U	K	
Sodium carbonate (Soda) (Soda Ash)	Na ₂ CO ₃	100	80			D	A	A		A	A	B	A			
Sodium carbonate (Soda), powder	Na ₂ CO ₃	100	20	2.510		D	A	A	A	A	A	A	A			
Sodium chlorate, saturated	NaClO ₃	25	20	1.230		A			A	A	A	A	A			
Sodium chlorate, saturated	NaClO ₃	28	20	1.410		A			A	A	A	A	A			
Sodium chlorate, saturated	NaClO ₃	100	20	2.490		C	B		A	A	A	C	A			
Sodium chlorate, saturated	NaClO ₃	100	80			C	B			A						
Sodium chloride (Common salt)	NaCl	25	20			D	B	A	A	A	A	A	A	A		
Sodium chloride (Common salt)	NaCl	100	20	2.170		D	B	A	A	A	A	A	A	A		
Sodium chloride (Common salt)	NaCl	100	80			D	B	A		A	A	B	A			
Sodium chlorite	NaClO ₂	25	20							B	D	D	D			
Sodium chlorite	NaClO ₂	25	40							B	D	D	D			
Sodium chlorite	NaClO ₂	25	60							B	D	D	D			
Sodium chlorite, diluted	NaClO ₂	100	20			D				A		D	A			
Sodium chromate	Na ₂ CrO ₄ +10H ₂ O	100	20			A	A	A		A		A	A			A
Sodium cyanide	NaCN	100	20	1.600		D	A	A		A	A	A	A			A
Sodium cyanide, solution	NaCN	100	20			D	A	A		A	A	A	A			
Sodium cyanide, solution	NaCN	100	20			D	A	A		A	A	A	A			
Sodium dichloroisocyanurate	NaC ₃ Cl ₂ N ₃ O ₃	100	20	0.950												
Sodium dichromate	Na ₂ Cr ₂ O ₇ +2H ₂ O	100	20	2.520					A	A	A	A	A			
Sodium dihydrogen phosphate	NaH ₂ PO ₄	10	20	1.070												
Sodium diphosphate	Na ₂ HPO ₄	100	20				A	A				A				
Sodium disulphite	Na ₂ S ₂ O ₅	100	20									A				
Sodium dithionite	Na ₂ S ₂ O ₄	10	20													
Sodium dithionite	Na ₂ S ₂ O ₄	100	20													
Sodium ethylate (Sodium ethoxide)	NaC ₂ H ₅ O	100	20			D	A			A						
Sodium ferricyanide, saturated		100	20							A	A	A	A			
Sodium ferricyanide, saturated		100	80							A						
Sodium ferrocyanide, saturated		100	20							A	A	A	A			
Sodium ferrocyanide, saturated		100	80							A						
Sodium fluoride	NaF	5	20	1.050		A	A			A	A	A	A			A
Sodium fluoride	NaF	100	20	2.550		C	A			A	A	A	A			
Sodium fluorsilicate	Na ₂ SiF ₆	100	20	2.680												
Sodium formate	NaHCO ₂	46	20			A	A			A						
Sodium hexametaphosphate (Calgon)	(NaPO ₃) ₆	100	20									A	A			
Sodium hydrogen difluoric	NaHF ₂	100	25	2.080												
Sodium hydrogen phosphate	Na ₂ HPO ₄	6	20	1.070												



Chemical guide

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code														
						A	S	C	P	T	E	N	V	U	K					
Sodium hydrosulphate	NaHSO4	100	20	2.440		A				A	A	A	A							
Sodium hydrosulphate	NaHSO4* H2O	100	20	2.100		A				A	A	A	A							
Sodium hydrosulphide	NaSH	100	20	1.790																
Sodium hydrosulphite	NaS2O4*2H2O, Na2S2O4	100	20	1.400																
Sodium hydroxide (Caustic soda)	NaOH+H2O	10	20	1.22		A	A	A	A	A	A	A	C	B						
Sodium hydroxide (Caustic soda)	NaOH+H2O	15	20	1.160		A	A	A	A	A	A	A	C	B	A					
Sodium hydroxide (Caustic soda)	NaOH+H2O	15	60			A	A		A	A	A	D								
Sodium hydroxide (Caustic soda)	NaOH+H2O	15	80			A	A		A	B	C	D								
Sodium hydroxide (Caustic soda)	NaOH+H2O	20	20	1.22	0.8	A	A		A	A	A		B							
Sodium hydroxide (Caustic soda)	NaOH+H2O	30	20	1.330	0.8	A	C	A	A	A	A	C	B	A						
Sodium hydroxide (Caustic soda)	NaOH+H2O	30	40			A	C	A	A	A	A	D	B							
Sodium hydroxide (Caustic soda)	NaOH+H2O	30	60			A	C	A	A	A	A	D								
Sodium hydroxide (Caustic soda)	NaOH+H2O	30	80			A	C		A	A	A	D								
Sodium hydroxide (Caustic soda)	NaOH+H2O	40	20	1.43	14.0				A	A	A	A	C	B						
Sodium hydroxide (Caustic soda)	NaOH+H2O	50	20	1.530	25.0	B			A	A	A	D	B	A						
Sodium hydroxide (Caustic soda)	NaOH+H2O	50	40			B			A	A	A	D	B							
Sodium hydroxide (Caustic soda)	NaOH+H2O	50	60			B			A	A	A	D								
Sodium hydroxide (Caustic soda)	NaOH+H2O	50	80			B			A	A	A	D								
Sodium hydroxide (Caustic soda)	NaOH+H2O	70	20						A	A	D	D	B							
Sodium hydroxide (Caustic soda)	NaOH+H2O	70	40						A	A	D	D	B							
Sodium hydroxide (Caustic soda)	NaOH+H2O	70	60						A	A	D	D								
Sodium hydroxide (Caustic soda)	NaOH+H2O	70	80						A	B	D	D								
Sodium hydroxide (Caustic soda)	NaOH+H2O	80	20						C		A	A	D	D	B					
Sodium hydroxide (Caustic soda)	NaOH	100	20	2.130																
Sodium hypochlorite	NaClO	5	20	1.020		D		D	A										D	
Sodium hypochlorite	NaClO	13	20	1.200	1.0	D	C	D	A	A	D	D	D	D						
Sodium hypochlorite	NaClO	13	60			D	C	D		A	D	D	D	D						
Sodium hypochlorite	NaClO	20	20			D	C	D		A	B	B	A	D						
Sodium hypochlorite, solution	NaClO	100	20	1.220		D	C	D		A	D	D	A							
Sodium iodide	NaI	100	20			A	D			A		A								
Sodium metaphosphate	NaPO3	100	20			A	A	D		A	A	A	A							
Sodium metasilicate	NaSiO3	100	20				A	A		A	A	A	A							
Sodium methylate	NaCH3O	100	20																	
Sodium monophosphate, di, tri	NaH2PO4	100	20					C	D				A	A	A					
Sodium nitrate	NaNO3	4	20	1.030		A	A	A	A	A	A	A	A							
Sodium nitrate	NaNO3	45	20	1.370		A	A	A		A	A	A	A							A



Chemical guide

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code														
						A	S	C	P	T	E	N	V	U	K					
Sodium nitrate, saturated	NaNO3	100	20	2.260		A	B	A	A	A	A	A	A							
Sodium nitrate, saturated	NaNO3	100	80			A	B	A		A	A	B	A							
Sodium nitrite	NaNO2	50	20			A				A	A	A	A							A
Sodium nitrite, saturated	NaNO2	100	20	2.170		A			A	A	A	A	A							
Sodium nitrite, saturated	NaNO2	100	80			A				A	A	B	A							
Sodium oleate	NaC17H33CO2	100	20			A	A			A										
Sodium orthophenylphenate	NaC6H5C6H4O	100	20				A						D							
Sodium oxalate	Na2C2O4	3,3	20			A	A			A		A								
Sodium oxalate	Na2C2O4	100	20																	
Sodium palmitate		100	20							A										
Sodium palmitate solution		5	20							A										
Sodium perborate	NaBO3+4H2O, NaBO2H2O2	100	20			D	C	C		A	A	B	A							
Sodium perchlorate	NaClO4+H2O	10	20	1.070			A			A										
Sodium perchlorate	NaClO4+H2O	25	20	1.180		A	A			A										A
Sodium perchlorate	NaClO4+H2O	100	20	2.020			A			A										
Sodium perchlorate	NaClO4+H2O	100	80				A			A										
Sodium perdisulfate	Na2S2O8	100	20																	
Sodium peroxide	Na2O2	5	20			D	A		A	A	A	A	A	D	A					
Sodium peroxide	Na2O2	10	20	1.110		D	A		A	A	A	A	A	D						
Sodium peroxide	Na2O2	50	20			D	A	D		A		A	A	D						
Sodium peroxide	Na2O2	100	20	2.810		D	A	C		A	A	A	A	D						
Sodium peroxide	Na2O2	100	80			D	A	C		A	A		A	D						
Sodium persulphate	Na2S2O8	100	20			D	A			A		D								
Sodium phosphate acid		100	20							A	A	A	A							
Sodium phosphate acid		100	80							A	A	A	A							
Sodium phosphate, alkaline		100	20				A			A	A	A	A							
Sodium phosphate, neutral	Na3PO4	100	20			A	A			A	A	A	A							
Sodium phosphate, neutral	Na3PO4	100	80			B	A			A	A	B	A							
Sodium phosphate, primary	NaH2PO4+12H2O	10	20	1.070		D	A													
Sodium phosphate, primary	NaH2PO4+12H2O	100	25	1.910		D	A													
Sodium phosphate, secondary	NaH2PO4+12H2O	50	20	1.250		D	A													
Sodium phosphate, secondary	NaH2PO4+12H2O	100	25	1.520		D	A													
Sodium phosphate, tertiary	Na3PO4+12H2O	100	25	1.620		D	A													
Sodium polyphosphate		100	20				A	D			A	A	A	A						
Sodium propionate	CH3CH2CO2Na	4	20	1.040		A				A										
Sodium pyrophosphate	Na4P2O7	100	20																	



Chemical guide

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code										
						A	S	C	P	T	E	N	V	U	K	
Sodium silicate	Na ₂ SiO ₃	20	20	1.240		A	A	A	A	A	A	A	A	A	A	A
Sodium silicate	Na ₂ SiO ₃	100	20	2.400		D	B	A		A	A	A	A			
Sodium silicofluoride	Na ₂ SiF ₆	100	20			D										
Sodium sulphate (Glauber's salt)	Na ₂ SO ₄ , Na ₂ SO ₄ +10H ₂ O	1	20	1.100		A	B	A	A	A	A	A	A	A	A	
Sodium sulphate (Glauber's salt)	Na ₂ SO ₄ , Na ₂ SO ₄ +10H ₂ O	5	20	1.020		A	B	A	A	A	A	A	A	A	A	
Sodium sulphate (Glauber's salt)	Na ₂ SO ₄ , Na ₂ SO ₄ +10H ₂ O	50	20	1.460		A		A		A	A	A	A	A		
Sodium sulphate (Glauber's salt)	Na ₂ SO ₄ , Na ₂ SO ₄ +10H ₂ O	100	20			A	B	A		A	A	A	A	A		
Sodium sulphate, saturated	Na ₂ SO ₄	100	20			A	B	A		A	A	A	A	A		
Sodium sulphate, saturated	Na ₂ SO ₄	100	80			A	B	A		A	A	B	A			
Sodium sulphide	Na ₂ S, Na ₂ S+9H ₂ O	16	20	1.160		D	B	A	A	A	A	A	A		A	
Sodium sulphide	Na ₂ S, Na ₂ S+9H ₂ O	20	20	1.070		D	B	A	A	A	A	A	A			
Sodium sulphide	Na ₂ S, Na ₂ S+9H ₂ O	100	20	1.856		D	B	A	A	A	A	A	A			
Sodium sulphide	Na ₂ S, Na ₂ S+9H ₂ O	100	20	1.420		D	B	A		A	A	A	A			
Sodium sulphide	Na ₂ S, Na ₂ S+9H ₂ O	100	80			D	B	A		A	A	B	A			
Sodium sulphite	Na ₂ SO ₃ , Na ₂ SO ₃ +7H ₂ O	18	20	1.180		A	A	A	A	A	A	A	A		A	
Sodium sulphite	Na ₂ SO ₃ , Na ₂ SO ₃ +7H ₂ O	40	20			A	A	A		A	A	A	A		A	
Sodium sulphite	Na ₂ SO ₃ , Na ₂ SO ₃ +7H ₂ O	100	20	1.530				A		A	A	A	A			
Sodium sulphite	Na ₂ SO ₃ , Na ₂ SO ₃ +7H ₂ O	100	80					A		A	B		B			
Sodium tartrate	C ₄ H ₄ O ₆ Na ₂	50	20													
Sodium tetraborate (Borax), saturated	Na ₂ B ₄ O ₇ +10H ₂ O	100	20	1.030		C	A	A		A	A	A	A			
Sodium tetraborate (Borax), saturated	Na ₂ B ₄ O ₇ +10H ₂ O	100	40			C	A	A		A	A	B	A			
Sodium tetraborate (Borax), saturated	Na ₂ B ₄ O ₇ +10H ₂ O	100	60			C	A	A		A	A	C	A			
Sodium tetraborate (Borax), saturated	Na ₂ B ₄ O ₇ +10H ₂ O	100	80			C	A	A		A		D	A			
Sodium thiocyanate	NaSCN	100	20						A	A	A	A	A			
Sodium thiosulphate	Na ₂ S ₂ O ₃ , Na ₂ S ₂ O ₃ +5H ₂ O	40	20			A	A	C		A	A	A	A	A		
Sodium thiosulphate	Na ₂ S ₂ O ₃ , Na ₂ S ₂ O ₃ +5H ₂ O	100	20	1.730		A	A	C	A	A	A	A	A	A		
Sodium thiosulphate	Na ₂ S ₂ O ₃ , Na ₂ S ₂ O ₃ +5H ₂ O	100	80			A	A	C		A	A	B	A			
Sodium triphosphate	Na ₃ PO ₄	100	20				A	A				A				
Sodium tripolyphosphate	Na ₅ P ₃ O ₁₀	100	20				A	D				A				
Sodium, saturated	Na	100	20	0.970						A	A	A	A			
Sodium, saturated	Na	100	80							A	A	B	A			
Sour crude oil		100	20							A	D	B	A			
Soya sauce		100	20				A	D				A	A	B		
Soybean oil		100	20	0.940	60.0	A	A	A	A	A	A	A	A	A	B	
Soybean oil		100	80		12.0	A	A	A		A	C	D	A			
Sperm oil		100	20	0.88	27.0		A	A				A	A			

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code														
						A	S	C	P	T	E	N	V	U	K					
Spindle oil		100	20			A				A	A	A								
Spinning acid	H2SO4-haltig	10	20				D													
Spinning bath acids	CS2-haltig	100	20									D								
Stannic chloride (Tin (IV) chloride)	SnCl4	100	20	3.950		D	A	D		A	A	A	A	B						
Stannic chloride (Tin (IV) chloride)	SnCl4	100	80			D	A	D		A		A	A							
Stannic fluoborate	Sn(BF4)2	100	20				A	D				A	A							
Stannous chloride (Tin (II) chloride)	SnCl2, SnCl2+2H2O	20	20	1.170		D	D			A	B	A	A							A
Stannous chloride (Tin (II) chloride)	SnCl2, SnCl2+2H2O	100	20	2.710		D	D			A	B	A	A							A
Stannous chloride (Tin (II) chloride)	SnCl2, SnCl2+2H2O	100	80			D	D			A		A	A							
Stannous sulphate	SnSO4	100	20																	
Stannous tetrachloride	SnCl4	100	20	2.330			D			A										A
Starch	(C6H10O5)x	100	20			A	A	C	A	A	A	A	A	A	A					
Starch syrup		100	20			A			A	A		A	A							
Steam above 150 C		100				A	A						D	D	D					
Steam under 150 C		100				A	A			A		D	D	C						
Stearic acid	C17H35COOH	100	20	0.940		A	A		A	A	D	B	A	A						
Stearic acid	C17H35COOH	100	60			A	A			A	D	B	B							
Stearic acid	C17H35COOH	100	80				A			A	D		C							
Stoddard solvent		100	20			A	A	A		A	D	A	A	A						
Strontium nitrate	Sr(NO3)2	40	20	1.420																
Strontium nitrate	Sr(NO3)2	100	20	2.986																
Strontium peroxide	SrO2	100	20	4.460																
Styrene	C6H5CHCH2, C8H8	100	20	0.910	11.0	A	A			A	D	C	C	C						
Succinic acid (Amber acid)	C4H6O4, C2H4(COOH)2	50	20	1.060		A	A		A	A	A	A	A							A
Succinic acid (Amber acid)	C4H6O4, C2H4(COOH)2	100	20							A	A	A	A							
Succinic acid (Amber acid)	C4H6O4, C2H4(COOH)2	100	80							A										
Sucrose solution		100	20			B	A			A	A	A	A	D						
Sugar		100	20			A	A	A		A		A	A							
Sugar solution		100	20			A				A		A	A							
Sugar syrup		100	20																	
Sulfamic acid	NH2SO3H	20	20																	
Sulfanilic acid	C6H4NH2SO3	100	20																	
Sulfurous oxychloride	SOCl2	100	20	1.640																
Sulphate liquor (Black liquor)	Ca(HSO3)2	100	20				C	D			A	A	A							
Sulphinol		100	20							A										
Sulphite liquor		6	20			D	A			A	A	D	A							



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Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code															
						A	S	C	P	T	E	N	V	U	K						
Sulphite liquor, paper processes		100	20				A	A													
Sulphite liquor, pulp processes		100	20				A	C					A								
Sulpholane	C4H8O2S	100	20																		
Sulphur	S	100	20	2.060			A	A	A	A	A	C	D	A	B						
Sulphur	S	100	80				D	A	A		A		D								
Sulphur chloride	S2Cl2	100	20	1.680			D	D	D		A	D	C	A							
Sulphur chloride	S2Cl2	100	20	1.680			D	D	D		A	D	C	A						A	
Sulphur chloride	S2Cl2	100	40				D	D	D		A	D									
Sulphur chloride	S2Cl2	100	40				D	D	D		A	D									
Sulphur dichloride	SCl2	100	20								A	D	D	A							
Sulphur dichloride	SCl2	100	40									D	D								
Sulphur dioxide, aqueous	SO2	100	20																		
Sulphur dioxide, dry	SO2	100	20	1.460			D	B	A	A	A	A	D	A							
Sulphur dioxide, humid (wet)	SO2	100	20	1.400			D	B	A	A	A	A	D	A						A	
Sulphur dioxide, humid (wet)	SO2	100	80				D	B	A		A		D								A
Sulphur hexafluoride	SF6	100	20								A	A	B	A							
Sulphur trioxide	SO3	100	20	1.990			D	C		C	B	C	D	C	B						
Sulphur trioxide	SO3	100	40				D	C				D	D	D	B						
Sulphuric acid	H2SO4	10	20	1.070			D	C	D	A	A	A	A	A	D						
Sulphuric acid	H2SO4	10	80				D	C	D		A	A	B	A	D						
Sulphuric acid	H2SO4	15	20	1.100			D	C	D	A	A	A	A	A	D						
Sulphuric acid	H2SO4	20	20	1.140			D	C	D	A	A	A	A	A	D						
Sulphuric acid	H2SO4	30	20	1.220			D	D	D	A	A	A	A	A	D						
Sulphuric acid	H2SO4	30	80				D	D	D		A	B	B	A	D						
Sulphuric acid	H2SO4	40	20	1.300			D	D	D	A	A	A	D	A	D	A					
Sulphuric acid	H2SO4	50	20	1.400			D	D	D	A	A	A	A	A	D	A					
Sulphuric acid	H2SO4	50	40				D	D	D	A	A	A	B	A	D						
Sulphuric acid	H2SO4	50	80				D	D	D		A	B	C	A	D						
Sulphuric acid	H2SO4	60	20	1.500			D	D	D	A	A	A	A	A	D						
Sulphuric acid	H2SO4	60	80				D	D	D		A	B	B	A	D						
Sulphuric acid	H2SO4	70	20	1.610			D	D	D	A	A	A	B	A	D	A					
Sulphuric acid	H2SO4	70	60				D	D	D		A	B	B	A	D						
Sulphuric acid	H2SO4	70	80				D	D	D		A	B	C	A	D						
Sulphuric acid	H2SO4	75	20	1.650			D	D	D	A	A	A	D	A	D						
Sulphuric acid	H2SO4	80	20	1.730			D	D	D	A	A	A	B	A	D	A					
Sulphuric acid	H2SO4	80	60				D	D	D		A	B	C	A	D						



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Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code										
						A	S	C	P	T	E	N	V	U	K	
Sulphuric acid	H2SO4	80	80			D	D	D		A	C	C	B	D		
Sulphuric acid	H2SO4	90	20	1.820		D	D	D	B	A	A	C	A	D		
Sulphuric acid	H2SO4	90	40			D	D	D		A	B	C	A	D		
Sulphuric acid	H2SO4	90	60			D	D	D		A	C	C	A	D		
Sulphuric acid	H2SO4	90	80			D	D	D		A	D	C	B	D		
Sulphuric acid	H2SO4	93	20			D	D	D	B	A	B	C	A	D		
Sulphuric acid	H2SO4	93	40			D	D	D		A	B	D	A	D		
Sulphuric acid	H2SO4	93	60			D	D	D		A	C	D	B	D		
Sulphuric acid	H2SO4	93	80			D	D	D		A	D	D	B	D		
Sulphuric acid	H2SO4	94	20			D	D	D	B	A	C	D	A	D		
Sulphuric acid	H2SO4	94	40			D	D	D		A	D	D	B	D		
Sulphuric acid	H2SO4	94	60			D	D	D		B	D	D	C	D		
Sulphuric acid	H2SO4	94	80			D	D	D		B	D	D	C	D		
Sulphuric acid	H2SO4	95	20			D	D	D	B	A	D	D	A	D		
Sulphuric acid	H2SO4	95	40			D	D	D		A	D	D	C	D		
Sulphuric acid	H2SO4	95	60			D	D	D		B	D	D	C	D		
Sulphuric acid	H2SO4	95	80			D	D	D		B	D	D		D		
Sulphuric acid	H2SO4	96	20	1.840	50.0	D	A	D	B	A	D	D	B	D		
Sulphuric acid	H2SO4	96	40			D	A	D		A	D	D	C	D		
Sulphuric acid	H2SO4	96	60			D	A	D		B	D	D	D	D		
Sulphuric acid	H2SO4	96	80			D	A	D		B	D	D	D	D		
Sulphuric acid	H2SO4	98	20	1.85	16.0	D	A	D	B	B	D	D	D	D	A	
Sulphuric acid	H2SO4	98	40			D	A	D		B	D	D	D	D		
Sulphuric acid	H2SO4	98	60			D	A	D		B	D	D	D	D		
Sulphuric acid	H2SO4	98	80			D	A	D		B	D	D	D	D		
Sulphuric acid	H2SO4	100	20	1.840		D	A	D		B	D	D	D	D		
Sulphurous acid	H2SO3	100	20	1.030		D	B	D		A	A	C	A	D	A	
Sulphurous acid	H2SO3	100	80			D	B	D		A	A		B	D	A	
Sulphuryl chloride, dry	SO2Cl2	100	20	1.667	1.0	A				A		D	A			
Sulphuryl chloride, humid	SO2Cl2	100	20	1.667	1.0	D				A		D	A			
Sweet sorghum		100	20				A	A				A	A			
Syrup		100	20			B	A			A	B	A	A			
Syrup, brown		100	20	1.4	9300	B	A			A	B	A	A			
Syrup, brown		100	30	1.4	2800	B	A			A	B	A	A			
Syrup, brown		100	40	1.4	1000	B	A			A	B	A	A			
Syrup, brown		100	40	1.4	1000	B	A			A	B	A	A			

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm ³)	Visc (cSt)	Material code										
						A	S	C	P	T	E	N	V	U	K	
Syrup, dark		100	20	1.4	7800	B	A			A	B	A	A			
Syrup, dark		100	30	1.4	2300	B	A			A	B	A	A			
Syrup, dark		100	40	1.4	900	B	A			A	B	A	A			
Syrup, white		100	20	1.4	8200	B	A			A	B	A	A			
Syrup, white		100	30	1.4	2300	B	A			A	B	A	A			
Syrup, white		100	40	1.4	900	B	A			A	B	A	A			
Tall oil (Pine oil), crude		100	20	0.970		A	A	C	A	A	D	A	A			
Tallow, pure		100	20				A		A	A	A	A	A	A		
Tannic acid	C2O6H6, C76H52O46	10	20	1.035		C	C	C	A	A		A	A	A		
Tannic acid	C2O6H6, C76H52O46	50	20			A	C	C		A		A	A	A		
Tannic acid	C2O6H6, C76H52O46	100	20			C	C	C		A	B	B	A	A		
Tanning extracts		100	20			A				A		A	A			
Tanning liquor		100	20				A			A	B	A				
Tanning oil		100	20				A					A	A			
Tar		100	20			A	A		A	A	D	A	A			
Tar oil		100	20			A				A		D	A			
Tartaric acid	C2H2(OH)2(COOH)2, C4H6O6	10	20			A		C	A	A	A	A	A	A		
Tartaric acid, saturated	C2H2(OH)2(COOH)2, C4H6O6	100	20	1.760		A	B	C	A	A	A	A	A	A		
Tartaric acid, saturated	C2H2(OH)2(COOH)2, C4H6O6	100	60			A	B	C		A	A	A				
Tartaric acid, saturated	C2H2(OH)2(COOH)2, C4H6O6	100	80				B	C		A	A	A				
Terpineol	C10H18O	100	20			A	A			A	C	B	A	B		
Tertiary butyl alcohol		100	20							A	B	D	A	D		
Tertiary butyl catechol		100	20			C	B				B	D	A	D		
Tertiary butyl mercaptan		100	20									D	A	D		
Tetrabromomethane		100	20									D	A			
Tetrachlorethylene, dry, pure	C2Cl4, CCl2CCl2	100	20	1.623	1.0	A	A			A	D	D	A			
Tetrachlorethylene, humid, pure	C2Cl4, CCl2CCl2	100	20	1.623	1.0	D	A			A	D	D	A	B		
Tetrachloroethane, pure	Cl2CH-CHCl2, (Cl2CH)2	100	20	1.590			A	C		A	D	D	A			
Tetrachloromethane	CCl4	100	20	1.590			A			A	D	D	A			
Tetraethyl lead (Motor fuel)	Pb(C2H5)4, Pb(CH3-CH2)4	100	20	1.660			A	A		A	D	D	B			
Tetraethyl lead, pure	Pb(CH3-CH2)4, Pb(C2H5)4	100	20	1.660		B	A	A		A	D	D	B			
Tetrahydrofuran, pure	C4H8O, (CH2)4O	100	20	0.888	12.0	C	A			A	D	D	D	C		
Tetrahydrofuran, pure	C4H8O, (CH2)4O	100	40			C	A			A	D	D	D	C		
Tetrahydrofuran, pure	C4H8O, (CH2)4O	100	60			C	A			A	D	D	D			
Tetrahydrofuran, pure	C4H8O, (CH2)4O	100	80			C	A			B	D	D	D			
Tetraline (Tetrahydronaphthalene), pure	C10H12	100	20	0.970		A	A			A	D	C	A			

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code															
						A	S	C	P	T	E	N	V	U	K						
Tetramethyl lead	Pb(CH3)4	100	20	1.990																	
Tetramethylene dichloride	CH2ClCH2CH2CH2Cl	100	20	1.140																	
Tetrametyl ammonium hydroxide		50	20									A									
Tetrametyl ammonium hydroxide		50	60									A									
Tetrapropylene	C12H24	100	20	0.760																	
Thioglycolic acid	HSCH2COOH	80	20	1.320		D	A	D	A												
Thioglycolic acid	HSCH2COOH	100	25	1.330		D	A	D													
Thionylchloride, pure	SOCl2	100	20	1.640		A	D	D		A		D	A								
Thorium nitrate	Tn(NO3)4	100	20																		
Tin	Sn	100	25	5.750																	
Tin dichloride (Stannous chloride)	SnCl2, SnCl2+2H2O	100	20			D	D														
Tin, plating solution		100	20				A			A	A	A	A								
Tin, plating solution		100	60				A			A	B	A	A								
Tin, plating solution		100	80				A			A		A	B								
Titanium sulfate	Ti(SO4)2	100	20									A									
Titanium tetrachloride	TiCl4	100	20	1.730		D	B			A	D	C	A	D							
Toluene	C6H5CH3, C7H8	100	20	0.870	1.0	A	A	A		A	D	D	B	C							
Toluene	C6H5CH3, C7H8	100	40			A	A	A		A	D	D		C							
Toluene	C6H5CH3, C7H8	100	60			A	A	A		A	D	D									
Toluene	C6H5CH3, C7H8	100	80			A	A	A		A	D	D									
Tomato juice		100	20			A	A			A		A	A								
Tooth paste		100	20				A	D				A	A								
Tracetin, pure		100	20			B						A	B	B							
Transformer oil (Switch oil)		100	20			A	A	A	A	A	D	A	D	D							
Transmission fluid		100	20	0.95	11.0		A	A					A	A							
Triamylamine	(C5H11)3N	100	25	0.790																	
Tributyl phosphate	(C4H9)3PO4	100	20	0.980		A	A		A	A	B	D	D	D							
Tributyl phosphate	(C4H9)3PO4	100	60			A	A			A		D	D	D							
Tributyl phosphate	(C4H9)3PO4	100	80			A	A					D	D	D							
Tributylamine	(C4H9)3N	100	20	0.780																	
Trichloroacetic acid	CCl3COOH, CCl3CO2H	50	20			D	D	D	A	A	C	D	D	D							
Trichloroacetic acid	CCl3COOH, CCl3CO2H	100	20	1.620		D	D	D	A	A	D	D	D	D							
Trichloroacetic acid	CCl3COOH, CCl3CO2H	100	40			D	D	D		A	D	D	D	D							
Trichloroacetic acid	CCl3COOH, CCl3CO2H	100	60			D	D	D		A	D	D	D	D							
Trichloroacetic acid	CCl3COOH, CCl3CO2H	100	80			D	D	D		A	D	D	D	D							
Trichloroethane (1.1.2 Trichloroethane)	C2H3Cl3	100	20	1.340		D	A	D		A	D	D	A	D							

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm ³)	Visc (cSt)	Material code										
						A	S	C	P	T	E	N	V	U	K	
Trichloroethylene	C2HCl3, CCl2CHCl	50	20			D	A	C		A		D	A	D	A	
Trichloroethylene	C2HCl3, CCl2CHCl	100	20	1.464	1.0	A	A	C		A	D	D	A	D	A	
Trichloroethylene	C2HCl3, CCl2CHCl	100	40			A	A	C		A	D	D		D		
Trichloroethylene	C2HCl3, CCl2CHCl	100	60			A	A	C		A	D	D		D		
Trichloroethylene	C2HCl3, CCl2CHCl	100	80			A	A	C		A	D	D		D		
Trichloromethane (Chloroform), pure	CHCl3	100	20	1.480						A	D	D	B	C		
Trichloropane	CH3CHClCHCl2	100	20				A	A					D	A		
Trichloropropane	CH2ClCHClCH2Cl	100	20				A	A					A	A		
Tricresyl phosphate (Lindol), pure	(C6H4CH3O)3PO	100	20	1.130		A	A		A	A	A	D	D	C		
Triethanolamine	(C2H4OH)3N	100	20	1.120		B	A		A	A	A	C	D	D		
Triethyl phosphate		100	20			A	A		A	A						
Triethylamine	(C2H5)3N	100	20	0.725									A	A		
Triethylamine	(C2H5)3N	100	40										A	A		
Triethylamine	(C2H5)3N	100	60										A	A		
Trimethyl carbinol	(CH3)3COH	100	20	0.790												
Trimethyl propane		100	20						A	A						
Trimethylamine	(CH3)3N	100	20	0.630												
Trimethylene	C3H6	100	20	0.610												
Trinitrobenzene	C6H3(NO2)3	100	20	1.690												
Trinitrotoluene	C6H2(NO2)3CH3	100	20	1.654			A					D	D	B		
Trioctyl phosphate	(C8H17)3PO4	100	20							A	A	D	D			
Triphenyl phosphite		100	20													
Trisodium phosphate		100	20			C	A			A						
Triton oil		100	20				A	A					A	A		
Tung oil (China-wood oil)		100	20			A	B			A	D	A	A	B		
Turbine oil (# 140)		100	20			A	A	A		A	D	A	A			
Turpentine	C10H16	100	20	0.860	2.0	A	A	A		A	B	B	A	D		
Turpentine	C10H16	100	40			A	A	A		A				D		
Turpentine	C10H16	100	60			A	A	A		A				D		
Turpentine oil	C10H16	100	20	0.860		A			B	A		A	A			
Uranium hexafluoride	UF6	100	25	5.100												
Uranium nitrate	UO2(NO3)2+6H2O	100	15	2.807												
Urea (Carbamide)	CO(NH2)2, NH2CONH2	30	20													
Urea (Carbamide)	CO(NH2)2, NH2CONH2	100	20	1.320		A	A	A		A	A	A	A			
Urea formalin		100	20										A	A		
Uric acid	C5H4N4O3	33	20			D				A						



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Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm³)	Visc (cSt)	Material code													
						A	S	C	P	T	E	N	V	U	K				
Urine		100	20			D	A		A	A	A	A	A						
Valclene 200 (Dupont)		100	20										A	D					
Vanilla extract		100	20				A						A	C					
Varnish		100	20			A	A	C		A	D	A	A	C					
Vaseline (Petrolatum), pure		100	20				A		A	A	D	A	A						
Vaseline oil		100	20										A	A					
Water	H2O	100	20	0.997		B	A		A	A	A	A	A	A					
Water	H2O	100	60			B	A			A	A	B	A	A					
Water	H2O	100	80			B	A			A	A	C	A	A					
Water (Sewage water)	H2O	100	20			B	A	D	A	A	A	A	A	A					
Water, acid, mine	H2O	100	20			D	A	C	A	A		A	A	A					
Water, chlorinated	H2O	100	20			C	A	A	A	A		A	A	A					
Water, distilled	H2O	100	20	1.000		A	A	D	A	A	A	A	A	A					
Water, distilled, de-ionized	H2O	100	20			D	A			A					A				
Water, fresh	H2O	100	20				A	A		A	A	A	A	A					
Water, salt	H2O	100	20			B	A	D	A	A	A	A	A	A					
Water, salt	H2O	100	40			B	A	D		A	A	B	A	A					
Water, sea water	H2O	100	20	1.020		D	A	D	A	A	A	A	A						
Water, sea water	H2O	100	40			D	A	D	A	A	A	B	A						
Wax alcohol		100	20							A		A	A						
Weed killers		100	20				A					B	A						
Vegetable juice		100	20				A					A	A	A					
Vegetable oil		100	20			A	A	C		A	A	A	A	A					
Wetting agents		5	20																
Whale oil, blubber		100	20	0.920	25-40		A	A				A	A						
Whey		100	20				A					A	A						
Whisky		100	20			D	A	D	A	A	A	A	A	D					
Whisky		100	60			D	A	D		A	A		A	D					
White liquor (Pulp Mill)		100	20			B	A	C		A	A	A	A						
White liquor (Pulp Mill)		100	60			B	A	C		A	A								
White liquor (Pulp Mill)		100	20				A	A					A						
White water (Pulp water)		100	20				A	A					A						
White water (Pulp water)		100	20				A	A					A						
Wine vinegar		100	20	0.990		C	A						A						
Vinegar		100	20			A	A	C	A	A	A	C	A	B					
Wines		100	20			D	A	D	A	A	A	A	A						

Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm ³)	Visc (cSt)	Material code														
						A	S	C	P	T	E	N	V	U	K					
Vinyl acetate	C4H6O2, CH3COOCH=CH2	100	20	0.932	11.0		A				A	B	D	D						
Vinyl acetate	C4H6O2, CH3COOCH=CH2	100	40								A	D	D	D						
Vinyl acetylene	CHCCHCH2	100	20										A	A						
Vinyl bromide	CH2=CHBr	100	20	1.516																
Vinyl chloride	CH2=CHCl	100	20	0.983	1.0						A	C	D	A						
Vinyl ethyl ether	CH2=CHOCH2CH3	100	20	0.770																
Vinyl fluoride	CH2=CHF	100	20																	
Vinyl methyl ether	CH2=CHOCH3	100	20	0.750																
Vinyl styrene	C6H4(CH:CH2)2	100	20	0.930																
Vinylidene fluoride	CH2CF2	100	20																	
Viscose spinning solution		100	20								A					D				
Wood oil	C10H16	100	20	0.860			A	A							A	A	B			
Wood sugar solutions	C5H10O5	100	20																	
Wood tars		100	20				A	A												
Wood vinegar		100	20																	
Xylene (Dimethyl benzene)	C6H4(CH3)2	100	20	0.870	1.0	A	A	A			A	D	C	B	D					
Xylidine	(CH3)2C6H3NH2, C8H11N	100	20	0.990							A	D	C	D	D					
Yeast		100	20			A	A		A	A			A	A						
Zinc acetate	Zn(C2H3O2)2+3H2O	100	20				A				A	A	A	A	D					
Zinc acetate	Zn(C2H3O2)2+3H2O	100	80				A				A	A	B	A	D					
Zinc chloride	ZnCl2	5	20	1.030		D		D	A	A	A	A	A	A						
Zinc chloride	ZnCl2	20	20	1.190		D		D	A	A	A	A	A	A	A					A
Zinc chloride	ZnCl2	30	20	1.220		D			A	A	A	A	A	A						
Zinc chloride	ZnCl2	40	20	1.420		D		D		A	A	A	A	A						
Zinc chloride	ZnCl2	60	20	1.750		D		D		A	A	A	A	A						
Zinc chloride	ZnCl2	75	20	2.070		D		D		A	A	A	A	A	A					A
Zinc chloride	ZnCl2	100	20			D		D		A	A	A	A	A						
Zinc chloride, powder	ZnCl2	100	20	2.910		D		D	A	A	A	A	A	A						
Zinc cyanide	Zn(CN)2	100	20	1.850																
Zinc ethyl	Zn(C2H5)2	100	20	1.200																
Zinc hydrosulphite	ZnS2O4	100	20				A	D				A	A							
Zinc nitrate	Zn(NO3)2+6H2O	100	20								A	A	A	A						
Zinc nitrate	Zn(NO3)2+6H2O	100	80								A	A	B	A						
Zinc powder	Zn	100	25	7.140																
Zinc salts		100	20											A						
Zinc sulphate	ZnSO4, ZnSO4+7H2O	10	20	1.110		D	A	C			A	A	A	A						



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Liquid name	Chemical formula	Conc (%)	Temp (°C)	Spec grav (kg/dm ³)	Visc (cSt)	Material code											
						A	S	C	P	T	E	N	V	U	K		
Zinc sulphate	ZnSO ₄ , ZnSO ₄ +7H ₂ O	100	20	1.380		D	A	C		A	A	A	A				
Zinc sulphate	ZnSO ₄ , ZnSO ₄ +7H ₂ O	100	80			D	A	C		A	A	B	A				
Zinc, plating solution		100	20				A			A	A	A	A				
	CH ₃ (CH ₂) ₄ CN	100	20														