GI 098-1 **CHEMICAL RESISTANCE GUIDE LIST** **Edition 0508**

Chemical Resistance guide to material selection

General Instructions

The Chemical Resistance List is only intended as a guide. No guarantees can be given.

Legend

+	Resistant	Within the acceptable limits of pressure and temperature the material is unaffected or only
o	conditionally resistant	The medium may attack the material or cause swelling. Restrictions refering pressure and/or
-	non resistant	The material cannot be used with the medium at all, or only under special conditions.
Ox	oxidising property	
S	stress cracking property	
Q	swelling property	
D	diffusion property	

Medium	Formula	Concentrati	[°C]	PE	PP	PVDF	ECTFE
Acetaldehyde	CH_3-CHO(C_2H_4O)	technically pure	20	+	o	-	
			40	o	-		
			60				
			80				
			100				
			120				
Acetaldehyde		40% aqueous solution	20	+	+	-	
			40	+	+		
			60	o	+		
			80		o		
			100		-		
			120				
Acetic acid	CH_3COOH	technically pure, glacial	20	+/S	+/S	+	+
			40	+/S	+/S	o	+
			60	o	o	-	+
			80		-		+
			100				+
			120				
Acetic acid	CH_3COOH	50%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80			o	+
			100			o	+
			120				
Acetic acid	CH_3COOH	10%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120			+	
Acetic acid anhydride	$C_4H_6O_3$	technically pure	20	+/S	+	-	+
			40	+	o		
			60	o			
			80				
			100				
			120				
Acetone	CH_3-CO-CH_3	technically pure	20	+/S	+	-	+
			40	+/S	+		+
			60	+/S	+		-
			80				-
			100				-
			120				-
Acetone	CH_3-CO-CH_3	up to 10%, aqueous	20	+	+	o	+
			40	+	+	o	+
			60	+	+	o	-
			80				-
			100				-
			120				-
Acrylonitrile	CH_2=CH-CN	technically pure	20	+	+	-	+
			40	+	o		

			60	+	o		
			80				
			100				
			120				
Adipic acid	$HOOC-(CH_2)_4-COOH$	saturated, aqueous	20	+/S	+	+	+
			40	+/S	+		+
			60	+/S	+		
			80		+		
			100				
			120				
Alcoholic spirits (Gin, Whiskey, etc.)		approx. 40% ethyl alcohol	20	+	+	+	
			40	+	+		
			60	+	+		
			80				
			100				
			120				
Allyl alcohol	$H_2C=CH-CH_2-OH$	96%	20	+/S	+		
			40	+/S	+		
			60	+/S	+		
			80				
			100				
			120				
Aluminium chloride	$AlCl_3$	10%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100		o	+	+
			120			+	+
Aluminium chloride	$AlCl_3$	saturated	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100		o	+	+
			120			+	+
Aluminium sulphate	$Al_2(SO_4)_3$	10%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100		+	+	+
			120			+	+
Ammonia	NH_3	gaseous, technically pure	20	+	+	+	+
			40	+	+	+	+
			60	o	+	o	+
			80		+	o	+
			100			o	+
			120				
Ammonium acetate	CH_3COONH_4	aqueous, all	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	
			80		+	+	
			100		+	+	
			120				
Ammonium carbonate	$(NH_4)_2CO_3$	50%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100		+	+	+
			120			+	+
Ammonium chloride	NH_4Cl	10%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100		+	+	+
			120			+	+
Ammonium chloride	NH_4Cl	aqueous, cold saturated	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100		+	+	+
			120			+	+
Ammonium hydrogen fluoride	NH_4HF_2	50%, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80				
			100				
			120				
Ammonium hydroxide	NH_4OH	aqueous, cold saturated	20	+	+	-	+
			40	+	+		+
			60	+	+		+
			80				+
			100				+
			120				+
Ammonium nitrate	NH_4NO_3	10%, aqueous	20	+	+	+	+
			60	+	+	+	+

			80		o	+	+
			100			+	+
			120			+	+
Ammonium nitrate	NH_4NO_3	aqueous, saturated	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		o	+	+
			100			+	+
			120			+	+
Ammonium phosphate	$NH_4H_2PO_4$	aqueous, all	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100		+	+	+
			120			+	+
Ammonium sulphate	$(NH_4)_2SO_4$	10%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100		+	+	+
			120			+	+
Ammonium sulphate	$(NH_4)_2SO_4$	aqueous, saturated	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100		+	+	+
			120			+	+
Ammonium sulphide	$(NH_4)_2S$	aqueous, all	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80				+
			100				+
			120				+
Amyl acetate	$CH_3(CH_2)_4$-$OOCCH_3$	technically pure	20	+/S	o	+	+
			40	+/S	o	o	+
			60	+/S	-	o	-
			80				-
			100				-
			120				-
Amyl alcohol	$CH_3(CH_2)_3$-CH_2-OH	technically pure	20	+	+	+	
			40	+	+	+	
			60	o	+	+	
			80		+	+	
			100			+	
			120			o	
Aniline	$-NH_2$	technically pure	20	+/S	o	+	+
			40	+/S	o	o	+
			60	o/S	o	-	+
			80				+
			100				+
			120				
Aniline hydrochloride	$-NH_3$+Cl	aqueous, saturated	20	+	+	+	
			40	+	+		
			60	o	o		
			80				
			100				
			120				
Anon, see Cyclohexanone		technically pure	20				
			40				
			60				
			80				
			100				
			120				
Antimony trichloride	$SbCl_3$	90%, aqueous	20	+	+	+	+
			40	+	+	+	
			60	+	+	+	
			80				
			100				
			120				
Aqua regia	HNO_3+HCl	concentrated	20	-	-	o	+
			40				+
			60				+
			80				+
			100				+
			120				
Arsenic acid	H_3AsO_4	80%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120			+	+
Barium hydroxide	$Ba(OH)_2$	aqueous, saturated	20	+	+	-	+
			40	+	+		+
			60	+	+		+

			80		+		+
			100				+
			120				+
Barium salts		aqueous, all	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100		+	+	+
			120				+
Battery acid, see Sulphuric acid up to 40%			20				
			40				
			60				
			80				
			100				
			120				
Beef tallow emulsion, sulphonated		usual commercial	20	+	+	+	
			40			+	
			60			+	
			80				
			100				
			120				
Beer		usual commercial	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80			+	+
			100				+
			120				+
Benzaldehyde	H_5C_6-CHO	saturated, aqueous	20	+/S	+	+	+
			40	+/S	+	o	+
			60	+/S	+	-	-
			80		+		-
			100				-
			120				-
Benzene	C_6H_6	technically pure	20	o/S	o/S	+	+
			40	o/S	-	o	+
			60			-	-
			80				-
			100				-
			120				
Benzine (also Petrol)	C_5H_{12} - $C_{12}H_{26}$	free of lead and aromatic compounds	20	+/S	o/Q/D	+	
			40	+/S		+	
			60	o/S		+	
			80			+	
			100			+	
			120			+	
Benzoic acid	H_5C_6-COOH	aqueous, all	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100		+	+	+
			120			+	+
Benzyl alcohol	-CH_2OH	technically pure	20	+	+	+	
			40	+	+	+	
			60	o	o	o	
			80			-	
			100				
			120				
Bisulfite, see Natriumbisulfite		aqueous, all	20				
			40				
			60				
			80				
			100				
			120				
Bleaching Type	NaOCl+NaCl	12,5% active chlorine, aqueous	20	o/Ox	o/Ox	o	+
			40	-	-		+
			60				+
			80				+
			100				+
			120				+
Borax	$Na_2B_4O_7$	all, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120				+
Boric acid	H_3BO_3	all, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120			+	+
Brandy		usual	20	+	+	+	
			40	+	+	+	
			60	+	+	+	

			80			+	
			100			+	
			120				
Brine, sea water			20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100		+	+	+
			120			+	+
Bromine water		saturated, aqueous	20	-	-	+	+
			40			+	+
			60			+	+
			80			+	
			100				
			120				
Bromine, liquid	Br_2	technically pure	20	-	-	+	
			40			+	
			60			+	
			80			+	
			100			o	
			120				
Bromine, vapours	Br_2	high	20	-	-	+	+
			40			+	+
			60			+	-
			80			+	-
			100			o	-
			120				-
Butadiene	$H_2C=CH-CH=CH_2$	technically pure	20	o/S	+	+	+
			40		+	+	+
			60		+	+	+
			80			+	+
			100			+	+
			120				+
Butane	C_4H_{10}	technically pure	20	+	+	+	+
			40	+	+		+
			60	+	+		+
			80				+
			100				+
			120				+
Butanediol	$HO-CH_2-CH_2-CH_2-CH_2-OH$	10%, aqueous	20	+	+		
			40	+	+		
			60	+	+		
			80				
			100				
			120				
Butanol	C_4H_9OH	technically pure	20	+/S	+	+	
			40	+/S	+	+	
			60	+/S	o	+	
			80		o	+	
			100			o	
			120				
Butyl acetate	$C_6H_{12}O_2$	technically pure	20	+/S	o	+	+
			40			o	-
			60			-	-
			80				-
			100				-
			120				-
Butyl phenol	$C_{10}H_{14}O$	technically pure	20	o	+	+	+
			40			+	+
			60			+	+
			80			+	+
			100				+
			120				
Butylene glycol	$HO-CH_2-CH_2-CH_2-CH_2-OH$	technically pure	20	+/S	+	+	
			40	+/S	+	+	
			60	+/S	+	+	
			80			+	
			100				
			120				
Butylene liquid	C_4H_8	technically pure	20	-	-	+	+
			40				+
			60				+
			80				+
			100				+
			120				+
Butyric acid	$CH_3-CH_2-CH_2-COOH$	technically pure	20	+/S	+	+	+
			40	+		+	+
			60	o		+	+
			80			+	+
			100			o	+
			120				+
Calcium chloride	$CaCl_2$	saturated, aqueous, all	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+

			80		+	+	+
			100		+	+	+
			120			+	+
Calcium hydroxide, slaked lime	$Ca(OH)_2$	saturated, aqueous	20	+	+	o	+
			40	+	+	-	+
			60	+	+		+
			80		+		+
			100				+
			120				+
Calcium hypochlorite (also chloride of lime)	$Ca(OCl)_2$	cold saturated, aqueous	20	o	o	o	+
			40	-	-	-	+
			60				+
			80				+
			100				+
			120				+
Calcium nitrate	$Ca(NO_3)_2$	50% aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80			+	+
			100			+	+
			120				+
Carbon dioxide (also Carbonic acid)	CO_2	technically pure, anhydrous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120				+
Carbon dioxide (also Carbonic acid)		technically pure, moist	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100				+
			120				+
Carbon disulphide	CS_2	technically pure	20	o	o	+	+
			40				
			60				
			80				
			100				
			120				
Carbon tetrachloride	CCl_4	technically pure	20	-	-	+	+
			40			+	+
			60			o	+
			80				+
			100				+
			120				+
Caustic potash solution (also potassium hydroxide)	KOH	50%, aqueous	20	+	+	-	
			40	+	+		
			60	+	+		
			80		+		
			100		+		
			120				
Caustic soda solution (also Sodium Hydroxide)	NaOH	up to 10%, aqueous	20	+	+	-	+
			40	+	+		+
			60	+	+		+
			80		+		+
			100		+		+
			120				+
Caustic soda solution (also Sodium Hydroxide)	NaOH	up to 40%, aqueous	20	+	+	-	+
			40	+	+		+
			60	+	+		+
			80		+		+
			100		+		+
			120				+
Caustic soda solution (also Sodium Hydroxide)	NaOH	50%, aqueous	20	+	+	-	+
			40	+	+		+
			60	+	+		+
			80		+		+
			100		+		+
			120				+
Chloral hydrate	CCl_3-$CH(OH)_2$	technically pure	20	+	o	-	+
			40	+			+
			60	+	-		-
			80				-
			100				
			120				
Chlorethanol (also Ethylene chlorohydrine)	$ClCH_2$-CH_2OH	technically pure	20	+	+	+	
			40	+	+	o	
			60	+	+	o	
			80			-	
			100				
			120				
Chloric acid	$HClO_3$	10%, aqueous	20	+	+	+	
			40	+	o	+	
			60	+			

			80				
			100				
			120				
Chloric acid	$HClO_3$	20%, aqueous	20	+	+	+	
			40	-	-		
			60				
			80				
			100				
			120				
Chloride of lime, see Calcium hypochlorite			20				
			40				
			60				
			80				
			100				
			120				
Chlorine	Cl_2	moist, 97%, gaseous	20	-	-	-	+
			40				+
			60				+
			80				+
			100				+
			120				
Chlorine		unhydrous, technically pure	20	o/S/Ox	-	+	+
			40	-		+	+
			60	-		+	+
			80			+	+
			100			o	+
			120				-
Chlorine		liquid, technically pure	20	-	-	+	+
			40				+
			60				+
			80				+
			100				-
			120				
Chlorine water		saturated	20	o	o	o	+
			40	o			+
			60				+
			80				+
			100				+
			120				
Chloroacetic acid, mono	$ClCH_2COOH$	50%, aqueous	20	+/S	+	+	+
			40	+/S	+	o	+
			60	+/S	+	-	+
			80		+		+
			100				+
			120				
Chloroacetic acid, mono	$ClCH_2COOH$	technically pure	20	+	+	-	
			40	+	+		
			60	+	+		
			80		+		
			100				
			120				
Chlorobenzene	H_5C_6-Cl	technically pure	20	o/S	+	+	+
			40			+	+
			60			o	-
			80			-	-
			100				-
			120				-
Chloroform	$CHCl_3$	technically pure	20	o	o	+	+
			40	o	-	+	+
			60	-		+	
			80			+	
			100				
			120				
Chloromethane (also Methyl chloride)	CH_3Cl	technically pure	20	o	-	+	
			40			+	
			60			+	
			80				
			100				
			120				
Chlorosulphonic acid	$ClSO_3H$	technically pure	20	-	-	o	+
			40			-	+
			60				-
			80				-
			100				-
			120				-
Chrome alum (chromium potassium sulphate)	$KCr(SO_4)_2$	cold saturated, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+		
			80		+		
			100				
			120				
Chromic acid	CrO_3+H_2O	up to 50%, aqueous	20	o/S/Ox	o/S/Ox	+	+
			40	-	-	+	+
			60			+	+

			80			+	+
			100			o	+
			120			o	
Chromic acid		all, aqueous	20	o/S/Ox	o/S/Ox	+	+
			40			+	+
			60			+	+
			80			o	+
			100			o	+
			120				
Chromic acid + Sulphuric acid + Water	$CrO_3 + H_2SO_4 + H_2O$	50g 15g 35g	20	-	-	+	
			40			+	
			60			+	
			80			o	
			100				
			120				
Cider			20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80				
			100				
			120				
Citric acid	$C_6H_8O_7$	10%, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+	+	
			100			+	
			120				
Coal gaz, benzene free			20	+	+	+	
			40				
			60				
			80				
			100				
			120				
Coconut fat alcohol		technically pure	20	+/S	+	+	
			40	o	+	+	
			60		o	+	
			80				
			100				
			120				
Coconut oil		technically pure	20	+	+	+	+
			40	+	+	+	+
			60	o	+	+	+
			80			+	+
			100			+	+
			120			+	+
Compressed air, containing oil			20	+	+	+	
			40	o/S	+	+	
			60		o/S	+	
			80				
			100				
			120				
Cooking salt, see Sodium chloride		all, aqueous	20				
			40				
			60				
			80				
			100				
			120				
Copper salts		all, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+	+	
			100			+	
			120				
Corn oil		technically pure	20	+/S	+	+	
			40	+	+	+	
			60	o	o	+	
			80			+	
			100				
			120				
Cresol	C_7H_8O	up to 90%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	o	+	+	+
			80			o	+
			100				+
			120				-
Crotonic aldehyde	C_4H_6O	technically pure	20	+/S	+	+	
			40			o	
			60			-	
			80				
			100				
			120				
Cyanhydroxyde, see Hydrocyanic acid			20				
			40				
			60				

			80				
			100				
			120				
Cyclo hexane	C_6H_{12}	technically pure	20	+	+	+	+
			40	+		+	+
			60	+		+	+
			80			+	+
			100				+
			120				-
Cyclohexanol	$C_6H_{12}O$	technically pure	20	+	+	+	+
			40	+	+	+	+
			60	+	o	o	-
			80			o	-
			100			-	-
			120				-
Cyclohexanone	$C_6H_{10}O$	technically pure	20	+/S	o	+	+
			40	+/S	o	o	+
			60	+/S	o	-	-
			80				-
			100				-
			120				-
Densodrin W			20			+	
			40				
			60				
			80				
			100				
			120				
Detergents		for usual washing lathers	20	+	+	+	+
			40	+	+	+	+
			60	+/S	+	+	+
			80		+/S	+	+
			100			+	+
			120				+
Dextrine (starch gum)		usual commercial	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80			+	+
			100			+	+
			120			+	+
Dextrose, see Glucose			20				
			40				
			60				
			80				
			100				
			120				
Di-isobutyl ketone	$((CH_3)_2CH)_2CO$	technically pure	20	+	+	+	+
			40			+	+
			60	-	-	o	
			80				
			100				
			120				
Dibutyl ether	$C_4H_9OC_4H_9$	technically pure	20	o/S	o		
			40				
			60	-	-		
			80				
			100				
			120				
Dibutyl sebacate	C_8H_{16} $(COOC_4H_9)_2$	technically pure	20	+/S	+	+	+
			40	o	o		+
			60				+
			80				+
			100				+
			120				
Dibutylphthalate		technically pure	20	+/S	+	+	
			40	o	o	+	
			60	o	o	o	
			80		-		
			100		-		
			120				
Dichlorethylene	ClCH=CHCl	technically pure	20	-	o	+	+
			40			+	-
			60				-
			80				-
			100				-
			120				-
Dichloroacetic acid	$Cl_2CHCOOH$	technically pure	20	+/S	+	+	
			40	+/S	+	+	
			60	o/S	+	o	
			80			-	
			100				
			120				
Dichloroacetic acid	$Cl_2CHCOOH$	50%, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	+	

			80			o	
			100			-	
			120				
Dichloroacetic acid methyl ester	$Cl_2CHCOOCH_3$	technically pure	20	+	+	o	
			40	+	+		
			60	+	+		
			80				
			100				
			120				
Dichlorobenzene	$C_6H_4Cl_2$	technically pure	20	o/S	o/S	+	+
			40			+	-
			60			+	-
			80			o	-
			100				-
			120				-
Dichloroethane, see Ethylene chloride			20				
			40				
			60				
			80				
			100				
			120				
Diesel oil			20	+/S	o	+	
			40			+	
			60	o		+	
			80			+	
			100			+	
			120			+	
Diethylamine	$(H_5C_2)_2NH$	technically pure	20	+	+	+	
			40			o	
			60			-	
			80				
			100				
			120				
Diglycolic acid	$HOOC\text{-}CH_2\text{-}O\text{-}CH_2\text{-}COOH$	30%, aqueous	20	+	+	+	+
			40	+	+		
			60	+	+		
			80				
			100				
			120				
Dimethyl amine	$(CH_3)_2NH$	technically pure	20	+	+	o	
			40	+		-	
			60	o			
			80				
			100				
			120				
Dimethyl formamide	C_3H_7NO	technically pure	20	+/S	+	-	+
			40	+/S	+		+
			60	o	+		+
			80				+
			100				+
			120				-
Dinonyl phthalate		technically pure	20	+/S	+		
			40	+/S	-		
			60				
			80				
			100				
			120				
Dioctyl phthalate		technically pure	20	+/S	+		+
			40	+/S	-		-
			60		-		-
			80				-
			100				-
			120				-
Dioxane	$O(C_2H_4)_2O$	technically pure	20	+/S	o	-	+
			40	+/S	o		+
			60	+/S	o		o
			80		-		-
			100				-
			120				-
Drinking water, see Water			20				
			40				
			60				
			80				
			100				
			120				
Ethyl acetate	$CH_3COOCH_2\text{-}CH_3$	technically pure	20	+/S/D	o/S	o	+
			40	+/S/D	o/S	-	+
			60				-
			80				-
			100				-
			120				-
Ethyl acrylate	$CH_2=CH\text{-}COOCH_2CH_3$	technically pure	20	+/S/Q	+	-	
			40	+/S/Q	+		
			60	+/S/Q	+		

			80				
			100				
			120				
Ethyl alcohol	CH_3-CH_2-OH	technically pure, 96%	20	+/S	+	+	
			40	+/S	+	o	
			60	+/S	+	-	
			80		+		
			100				
			120				
Ethyl alcohol/acetic acid (fermentation mixture)		technically pure	20	+/S	+/S	+	
			40	o/S		+	
			60	o/S		+	
			80			o	
			100				
			120				
Ethyl chloride	CH_3-CH_2-Cl	technically pure	20	o	o/S	+	+
			40	-	-	+	+
			60			+	+
			80			+	+
			100			o	+
			120				+
Ethyl ether	CH_3CH_2-O-CH_2CH_3	technically pure	20	o/S	+/S	+	+
			40			+	
			60				
			80				
			100				
			120				
Ethylbenzene	#BEZUG!	technically pure	20	o/S	o/S	+	
			40	-	-		
			60		-		
			80				
			100				
			120				
Ethylene chloride	ClCH_2-CH_2Cl	technically pure	20	o	o/S	+	+
			40		-	+	+
			60		-	+	+
			80			+	+
			100			o	+
			120			-	+
Ethylene diamine	H_2N-CH_2-CH_2-NH_2	technically pure	20	+	+	o	
			40	+	+	o	
			60	+	+	-	
			80				
			100				
			120				
Ethylene glycol	HO-CH_2-CH_2-OH		20	+/S	+/S	+	
			40	+/S	+/S	+	
			60	+/S	+/S	+	
			80		+	+	
			100		+	+	
			120			+	
Ethylene oxide	CH_2-CH_2O	technically pure, liquid	20	-	o	+	
			40			+	
			60			+	
			80			o	
			100				
			120				
Fatty acids		technically pure	20	+	+	+	
			40	+	+	+	
			60	o	o	+	
			80			+	
			100				
			120				
Fatty alcohol sulphonates		aqueous	20	+/S	+/S	+	
			40	+	+	+	
			60	+	o	+	
			80			+	
			100			+	
			120				
Fertilizer salts		aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80			+	
			100				
			120				
Fluorine	F_2	technically pure	20	-	-	-	
			40				
			60				
			80				
			100				
			120				
Fluosilicic acid	H_2SiF_6	32%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+

			80			+	+
			100			+	+
			120				+
Formaldehyde (also Formalin)	CH_2O	40%, aqueous	20	+/S	+	+	+
			40	+	+	+	+
			60	+	+	+	
			80			+	
			100				
			120				
Formamide	CH_3NO	technically pure	20	+	+		
			40	+	+		
			60	+			
			80				
			100				
			120				
Formic acid	HCOOH	up to 50%, aqueous	20	+/S/D	+/S/D	+	+
			40	+/S/D	+/S/D	+	+
			60	+/S/D	+/S/D	+	+
			80			+	+
			100			+	+
			120				+
Formic acid	HCOOH	technically pure	20	+/S/D	+/S/D	+	+
			40	+/S/D	o	+	+
			60	+/S/D	-	+	+
			80			+	+
			100			+	+
			120				+
Freon 113, see Trifluorotrichloroethane			20				
			40				
			60				
			80				
			100				
			120				
Frigen 12 (also Freon 12)	CF_2Cl_2	technically pure	20	-	-	o	
			40				
			60				
			80				
			100				
			120				
Fruit juices			20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+	+	
			100			+	
			120			+	
Fruit pulp			20	+	+		
			40	+	+		
			60	+	+		
			80				
			100				
			120				
Fuel oil			20	+	+	+	
			40	o	o	+	
			60			+	
			80			+	
			100			+	
			120				
Furfuryl alcohol	$C_5H_6O_2$	technically pure	20	+/S	+	+	
			40	+	+	+	
			60	o	o	o	
			80			-	
			100				
			120				
Gelatine		all, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100				+
			120				
Glucose	$C_6H_{12}O_6$	all, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120			+	+
Glycerine		all, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+	+	
			100			+	
			120			+	
Glycerine	$C_3H_8O_3$	technically pure	20	+	+	+	
			40	+	+	+	
			60	+	+	+	

			80		+	+	
			100		+	+	
			120			+	
Glycocoll (also Glycin)	NH_2-CH_2-COOH	10%, aqueous	20	+	+	+	
			40	+	+	+	
			60			+	
			80			+	
			100				
			120				
Glycol, see Ethylene glycol			20				
			40				
			60				
			80				
			100				
			120				
Glycolic acid	HO-CH_2-COOH	37%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	o	+	
			80			+	
			100			+	
			120				
Heptane	C_7H_{16}	technically pure	20	+	+	+	+
			40			+	+
			60	o	o	+	+
			80			+	+
			100			+	+
			120				+
Hexane	C_6H_{14}	technically pure	20	+	+	+	+
			40			+	+
			60	o	o	+	+
			80			+	+
			100			+	+
			120				+
Hydrazine hydrate	H_2N-NH_2H_2O	aqueous	20	+	+	-	
			40	+	+		
			60	+	+		
			80				
			100				
			120				
Hydrobromic acid	HBr	50%, aqueous	20	+/S	+/S	+	
			40	+/S	+/S	+	
			60	+/S	+/S	+	
			80			+	
			100			+	
			120				
Hydrochloric acid	HCl	5%, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+	+	
			100			+	
			120			+	
Hydrochloric acid	HCl	10%, aqueous	20	+	+	+	
			40	+	+	+	
			60	+/S	+	+	
			80		+	+	
			100			+	
			120			+	
Hydrochloric acid	HCl	up to 30%, aqueous	20	+/D	+/S/D	+	+
			40	+/D	+/S/D	+	+
			60	+/S/D	+/S/D	+	+
			80		+/S/D	+	+
			100			+	+
			120				+
Hydrochloric acid	HCl	36%, aqueous	20	+/D	o	+	+
			40	+/D	o	+	+
			60	+/S/D	o	+	+
			80		o	+	+
			100			+	+
			120				+
Hydrocyanic acid	HCN	technically pure	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80			+	
			100				
			120				
Hydrofluoric acid	HF	70%, aqueous	20	+	+/S	+	
			40	+	+/S	+	
			60	o	o	+	
			80			+	
			100			+	
			120				
Hydrofluoric acid	HF	50%, aqueous	20	+	+/S	+	+
			40	+	+/S	+	+
			60	o	+/S	+	+

			80		o	+	+
			100				+
			120				+
Hydrofluoric acid	HF	up to 40%, aqueous	20	+	+/S	+	+
			40	+	+/S	+	+
			60	o	+/S	+	+
			80		o	+	+
			100			+	+
			120				+
Hydrogen	H_2	technically pure	20	+	+	+	+
			40	+	+	+	+
			60	+/D	+/D	+	+
			80			+	+
			100			+	+
			120				+
Hydrogen chloride	HCl	technically pure, gaseous	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80			+	
			100			+	
			120				
Hydrogen peroxide	H_2O_2	10%, aqueous	20	+	+	o	
			40	+	+	o	
			60	+	+	-	
			80				
			100				
			120				
Hydrogen peroxide	H_2O_2	30%, aqueous	20	+	+	o	+
			40	+	+	o	+
			60	+	o/Ox	-	
			80				
			100				
			120				
Hydrogen peroxide	H_2O_2	90%, aqueous	20	+	-	o	+
			40	+			+
			60	-			
			80				
			100				
			120				
Hydrogen sulphide	H_2S	technically pure	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80			+	+
			100			+	+
			120			+	+
Hydrogen sulphide	H_2S	saturated, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	
			80			+	
			100			+	
			120			+	
Hydrosulphite, see Sodium dithionite		up to 10%, aqueous	20				
			40				
			60				
			80				
			100				
			120				
Hydroxylamine sulphate	$(H_2NOH)_2H_2SO_4$	all, aqueous	20	+	+		
			40	+	+		
			60	+	+		
			80				
			100				
			120				
Iodine solution		6,5% iodine in ethanol	20	+	+	+	+
			40	+	+	+	+
			60	o	o	+	+
			80				+
			100				+
			120				
Iron salts		all, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+	+	
			100			+	
			120			+	
Iso-octane	C_8H_{18}	technically pure	20	+	+	+	+
			40			+	+
			60	o	o	+	+
			80			+	+
			100			+	+
			120				+
Isopropanol		technically pure	20	+	+	+	
			40	+	+	+	
			60	+	+	+	

			80		+	o	
			100				
			120				
Isopropyl ether		technically pure	20	o/S	o/S	+	+
			40			+	+
			60	-	-	+	
			80				
			100				
			120				
Lactic acid	$CH_3CHOHCOOH$	10%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	o	
			80		+	o	
			100		+	-	
			120				
Lanolin		technically pure	20	+/S	+	+	
			40	o	+	+	
			60	o	+	+	
			80			+	
			100			+	
			120			+	
Lead acetate	$Pb(CH_3COO)_2$	aqueous, saturated	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80			+	
			100			+	
			120				
Linseed oil		technically pure	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100		+	+	+
			120			+	+
Liqueurs			20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+	+	
			100				
			120				
Lubricating oils			20	+	+	+	+
			40	+		+	+
			60	o		+	+
			80			+	+
			100			+	+
			120			+	+
Lubricating oils, free of aromatic compounds			20	+/S	+	+	
			40	+	+	+	
			60	o	o	+	
			80			+	
			100			+	
			120			+	
Magnesium salts		all, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+	+	
			100			+	
			120			+	
Maleic acid	$(CHCOO)_2$	cold saturated, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80			+	+
			100			+	+
			120			+	+
Malic acid	$C_4H_6O_5$	1%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80			+	+
			100			+	+
			120				+
Marmelade			20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+	+	
			100		+	+	
			120			+	
Mercury	Hg	pure	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80			+	+
			100			+	+
			120			+	+
Mercury salts		cold saturated, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	+	

			80			+	
			100			+	
			120			+	
Methane	CH_4	technically pure	20	+	+	+	+
			40			+	+
			60			+	+
			80				+
			100				+
			120				+
Methanol	CH_3OH	all	20	+	+	+	
			40	+	+	o	
			60	+	+	-	
			80		+		
			100				
			120				
Methyl acetate	CH_3COOCH_3	technically pure	20	+	+	+	
			40	+	+	o	
			60		o		
			80				
			100				
			120				
Methyl amine	CH_3NH_2	32%, aqueous	20	+	+	o	+
			40				-
			60				-
			80				-
			100				-
			120				-
Methyl bromide	CH_3Br	technically pure	20	o	-	+	+
			40			+	+
			60			+	+
			80				+
			100				+
			120				+
Methyl chloride	CH_3Cl	technically pure	20	o/S	-	+	+
			40			+	+
			60			+	+
			80				+
			100				+
			120				+
Methyl ethyl ketone	$CH_3COC_2H_5$	technically pure	20	+	+	-	+
			40	+	o		+
			60	o	o		o
			80				-
			100				-
			120				-
Methylene chloride	CH_2Cl_2	technically pure	20	o/S	o	+	+
			40			o	+
			60			o	o
			80				-
			100				-
			120				-
Milk			20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100		+	+	+
			120			+	+
Mineral water			20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+	+	
			100		+	+	
			120			+	
Mixed acids (nitric 15%, hydrofluoric 5%, sulphuric 18%)		3 parts, 1 part, 2 parts	20	o	o	+	
			40			+	
			60			+	
			80				
			100				
			120				
Mixed acids (sulphuric, nitric, water)		(48%, 49%, 3%)	20	-	-	+	
			40				
			60				
			80				
			100				
			120				
Mixed acids (sulphuric, nitric, water)		(50%, 50%, 0%)	20	-	-	+	
			40				
			60				
			80				
			100				
			120				
Mixed acids (sulphuric, nitric, water)		(10%, 87%, 3%)	20	-	-	o	
			40				
			60				

			80				
			100				
			120				
Mixed acids (sulphuric, nitric, water)		(50%, 31%, 19%)	20	-	-	+	
			40				
			60				
			80				
			100				
			120				
Mixed acids (sulphuric, nitric, water)		(50%, 33%, 17%)	20	-	-	+	
			40				
			60				
			80				
			100				
			120				
Mixed acids (sulphuric, nitric, water)		(10%, 20%, 70%)	20	+	+	+	
			40	o	o	+	
			60			+	
			80			+	
			100				
			120				
Mixed acids (sulphuric, phosphoric, water)		(30%, 60%, 10%)	20	+	+	+	
			40	o	o	+	
			60			+	
			80			+	
			100				
			120				
Molasses			20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80			+	+
			100				+
			120				+
Molasses flavouring			20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80			+	
			100				
			120				
Monochloroacetic acid ethyl ester	$ClCH_2COOC_2H_5$	technically pure	20	+	+	o	
			40	+	+		
			60	+/S	+/S		
			80				
			100				
			120				
Monochloroacetic acid methyl ester	$ClCH_2COOCH_3$	technically pure	20	+	+	+	
			40	+	+	o	
			60	+/S	+/S		
			80				
			100				
			120				
Morpholin		technically pure	20	+	+	+	
			40	+	+	+	
			60	+	+	o	
			80				
			100				
			120				
Mowilith D		usual commercial	20	+	+	+	
			40				
			60				
			80				
			100				
			120				
Naphthalene	$C_{10}H_8$	technically pure	20	+/S	+	+	+
			40		+	+	
			60	o	+	o	
			80				
			100				-
			120				
Nickel salts		cold saturated, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+	+	
			100			+	
			120			+	
Nitric acid	HNO_3	6,3%, aqueous	20	+	+	+	+
			40	+		+	+
			60	+	o	+	+
			80			+	+
			100			+	+
			120				
Nitric acid	HNO_3	up to 40%, aqueous	20	o/S	o/S	+	+
			40			+	+
			60	-	-	+	+

			80			+	+
			100			+	+
			120				
Nitric acid	HNO_3	65%, aqueous	20	o/S	-	+	+
			40	-		+	+
			60			+	o
			80			o	-
			100			-	-
			120				-
Nitric acid	HNO_3	90%	20	-	-	-	+
			40				+
			60				-
			80				-
			100				-
			120				-
Nitric oxide, see Nitrous gases			20				
			40				
			60				
			80				
			100				
			120				
Nitrobenzene	$C_6H_5NO_2$	technically pure	20	+/S	+/S	+	+
			40	o/S	+/S	o	+
			60	o/S	o/S	-	o
			80				-
			100				-
			120				-
Nitrotoluene	$C_7H_7NO_2$	technically pure	20	+	+	+	
			40	o	+	+	
			60	o/S	o/S	+	
			80			+	
			100			o	
			120				
Nitrous gases	NOx	diluted, moist and anhydrous	20	+/S	+/S	+	
			40	+/S	o/S	+	
			60	+/S	-	+	
			80			+	
			100			+	
			120				
Oleic acid	$C_{18}H_{34}O_2$	technically pure	20	+	+	+	+
			40	+	+	+	+
			60	o	o	+	+
			80			+	+
			100			+	+
			120			+	+
Oleum	$H_2SO_4+SO_3$	10% SO3	20	-	-	-	+
			40				-
			60				-
			80				-
			100				-
			120				-
Oleum vapours		traces	20	-	-	-	
			40				
			60				
			80				
			100				
			120				
Olive oil			20	+	+	+	
			40	+	+	+	
			60	o	+	+	
			80		+	+	
			100				
			120				
Oxalic acid	HOOCCOOH	cold saturated, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	o	o
			80				-
			100				-
			120				-
Oxygen	O_2	all	20	+	+	+	+
			40	+	+	+	+
			60	o	o	+	+
			80			+	+
			100			o	+
			120			o	+
Ozone	O_3	up to 2%, in air	20	o	o	o	+
			40	-	-		+
			60				+
			80				+
			100				+
			120				
Ozone		cold saturated, aqueous	20	o	o	o	
			40	-	-		
			60				

			80				
			100				
			120				
Palm oil, palm nut oil			20	+	+	+	
			40	+	+	+	
			60	o	o	+	
			80			+	
			100			+	
			120				
Palmitic acid	$C_{16}H_{32}O_2$	technically pure	20	+	+	+	+
			40	+	+	+	+
			60	o	o	+	+
			80			+	+
			100			+	+
			120			+	+
Paraffin emulsions		usual commercial, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	o	o	+	+
			80			+	+
			100			+	+
			120				+
Paraffin oil			20	+	+	+	
			40	+	+	+	
			60	o	o	+	
			80			+	
			100			+	
			120			+	
Perchloric acid	$HClO_4$	10%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80			+	+
			100			+	+
			120				
Perchloric acid	$HClO_4$	70%, aqueous	20	+	o	+	+
			40	o	-	+	+
			60	-		+	o
			80			+	
			100			+	
			120				
Perchloroethylene (also Tetrachloroethylene)	$Cl_2C=CCl_2$	technically pure	20	o	o	+	
			40			+	
			60			+	
			80			o	
			100				
			120				
Petroleum		technically pure	20	+	+	+	
			40	+	o	+	
			60	o/S	o/S	+	
			80			+	
			100			+	
			120			+	
Petroleum ether		technically pure	20	+	+	+	
			40	o	+	+	
			60	o	o	+	
			80			+	
			100			+	
			120				
Petroleum jelly		technically pure	20	+/S	+	+	+
			40	o		+	+
			60	-	o	+	+
			80			+	+
			100			+	+
			120			+	+
Phenol (also Carbolic acid)	C_6H_6O	up to 10%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	o
			80			+	-
			100			+	-
			120				-
Phenol (also Carbolic acid)	C_6H_6O	up to 90%, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	o	
			80				
			100				
			120				
Phenyl hydrazine	$C_6H_5NHNH_2$	technically pure	20	o	o	+	+
			40			+	+
			60				
			80				
			100				
			120				
Phenylhydrazine-hydrochloride	$C_6H_5NHNH_3Cl$	aqueous	20		+	+	
			40		o	+	
			60		o	+	

			80				
			100				
			120				
Phosgene	$COCl_2$	liquid, technically pure	20	o	o		
			40				
			60				
			80				
			100				
			120				
Phosgene	$COCl_2$	gaseous, technically pure	20	o	o	+	
			40			+	
			60				
			80				
			100				
			120				
Phosphoric acid	H_3PO_4	up to 30%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120			+	+
Phosphoric acid	H_3PO_4	50%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80			+	+
			100			+	+
			120			+	+
Phosphoric acid	H_3PO_4	85%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	o	+	+	+
			80		+	+	+
			100			+	+
			120			+	+
Phosphorous oxychloride	$POCl_3$	technically pure	20	+	o	+	
			40	+	o	+	
			60	o	o	o	
			80				
			100				
			120				
Phosphorous pentachloride	PCl_5	technically pure	20	+	o	-	
			40	+	o		
			60	o	o		
			80				
			100				
			120				
Phosphorous pentoxide	P_2O_5	technically pure	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80			+	+
			100			+	+
			120				
Phosphorous trichloride	PCl_3	technically pure	20	+	o	-	
			40	+	o		
			60	o	o		
			80				
			100				
			120				
Photographic developer		usual commercial	20	+	+	+	
			40	+	+	+	
			60	o	+	+	
			80				
			100				
			120				
Photographic emulsions			20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80				
			100				
			120				
Photographic fixer		usual commercial	20	+	+	+	
			40	+	+	+	
			60		+	+	
			80				
			100				
			120				
Phthalic acid		saturated, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80			+	
			100			+	
			120				
Picric acid	$C_6H_2(OH)(NO_2)_3$	1%, aqueous	20	+	+	+	+
			40			+	
			60			+	

			80			+	
			100			+	
			120				
Potash (also Potassium carbonate)	K_2CO_3	cold saturated, aqueous	20	+	+	+	+
			40	+	+	o	+
			60	+	+	o	+
			80		+		+
			100				+
			120				+
Potassium aluminium sulphates (also Alum)	$KAl(SO_4)_2 12H_2O$	50%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120			+	+
Potassium bichromate	$K_2Cr_2O_7$	saturated, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100		+	+	+
			120			+	+
Potassium borate	K_3BO_3	10%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+		+
			100		+		+
			120				+
Potassium bromate	$KBrO_3$	cold saturated, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+	+	
			100			+	
			120			+	
Potassium bromide	KBr	all, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120			+	+
Potassium carbonate, see Potash		cold saturated	20				
			40				
			60				
			80				
			100				
			120				
Potassium chlorate	$KClO_3$	cold saturated, aqueous	20	+	+	o	+
			40	+	+	-	+
			60	+	+		+
			80				+
			100				+
			120				+
Potassium chloride	KCl	all, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120			+	+
Potassium chromate	K_2CrO_4	cold saturated, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120				+
Potassium cyanide	KCN	cold saturated, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	o	+
			80		+		+
			100				+
			120				+
Potassium iodide	KJ	cold saturated, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120				+
Potassium nitrate (also Salpetre)	KNO_3	50%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120				+
Potassium perchlorate	$KClO_4$	cold saturated, aqueous	20	+/Ox	+/Ox	+	+
			40	+	+	+	+
			60	+	+	+	

			80			+	
			100				
			120				
Potassium permanganate	$KMnO_4$	cold saturated, aqueous	20	+/Ox	+/Ox	+	+
			40	+	+	+	+
			60	+	o	+	+
			80			+	+
			100			+	+
			120				+
Potassium persulphate	$K_2S_2O_8$	all, aqueous	20	+/Ox	+/Ox	+	+
			40	+	+	+	+
			60	+	+	+	
			80			+	
			100				
			120				
Potassium phosphate	KH_2PO_4	all, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+	+	
			100				
			120				
Potassium sulphate	K_2SO_4	all, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120				+
Propane	C_3H_8	technically pure, liquid	20	+	+	+	+
			40	+	+	+	+
			60		+	+	+
			80				+
			100				+
			120				+
Propane	C_3H_8	technically pure, gaseous	20	+	+	+	+
			40	+	+	+	+
			60		+	+	+
			80				+
			100				+
			120				+
Propanol, n-/iso-	C_3H_8O	technically pure	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80			o	
			100				
			120				
Propargyl alcohol	$CH{\equiv}C\text{-}CH_2\text{-}OH$	7%, aqueous	20	+	+	+	
			40	+	+	o	
			60	+	+	o	
			80				
			100				
			120				
Propionic acid	CH_3CH_2COOH	50%, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80				
			100				
			120				
Propionic acid	CH_3CH_2COOH	technically pure	20	+	+	+	
			40	o	o	+	
			60	o	o	+	
			80				
			100				
			120				
Propylene glycol	$HO\text{-}CH_2\text{-}CH_2\text{-}CH_2\text{-}OH$	technically pure	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80				
			100				
			120				
Propylene oxide	C_3H_6O	technically pure	20	+	+	+	-
			40			o	-
			60				-
			80				-
			100				-
			120				-
Pyridine	C_5H_5N	technically pure	20	+	o	+	-
			40	o	o	-	-
			60	o	o		-
			80				-
			100				-
			120				-
Ramasit (fabric waterproofing agents)		usual commercial	20			+	
			40			+	
			60			+	

			80				
			100				
			120				
Silicone oil			20	+	+		
			40	+	+		
			60	+	+		
			80		+		
			100				
			120				
Silver salts		cold saturated, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+	+	
			100			+	
			120				
Soap solution		all, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+/S	+/S	+	+
			80			+	+
			100			+	+
			120				+
Soda, see sodium carbonate			20				
			40				
			60				
			80				
			100				
			120				
Sodium acetate	CH_3COONa	all, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100		o	o	+
			120				+
Sodium benzoate	C_6H_5COONa	cold saturated, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			o	+
			120				+
Sodium bicarbonate	$NaHCO_3$	cold saturated, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120				+
Sodium bisulphate	$NaHSO_4$	10%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120			+	+
Sodium bisulphite	$NaHSO_3$	all, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80			+	+
			100			+	+
			120				+
Sodium bromate	$NaBrO_3$	all, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+	+	
			100			+	
			120				
Sodium bromide	NaBr	all, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120			+	+
Sodium carbonate (also soda)	Na_2CO_3	cold saturated, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120				+
Sodium chlorate	$NaClO_3$	all, aqueous	20	+	+	o	+
			40	+	+		+
			60	+	+		+
			80		+		+
			100				+
			120				+
Sodium chloride (also Cooking salt)	NaCl	all, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+

			80		+	+	+
			100			+	+
			120			+	+
Sodium chlorite	$NaClO_2$	diluted, aqueous	20	+	+	+	+
			40		o	+	+
			60		o	+	+
			80			+	+
			100			o	+
			120				+
Sodium chromate	Na_2CrO_4	diluted, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+	+	
			100			+	
			120				
Sodium disulfite	$Na_2S_2O_5$	all, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+	+	
			100			+	
			120				
Sodium dithionite (also Hydrosulphite)	$Na_2S_2O_4$	up to 10%, aqueous	20	+	+	+	
			40	+		+	
			60	+		o	
			80				
			100				
			120				
Sodium fluoride	NaF	cold saturated, aqueous	20	+	+	+	+
			40	+		+	+
			60	+		+	+
			80			+	+
			100			+	+
			120				+
Sodium hydroxide, see Caustic soda solution		up to 50%, aqueous	20				
			40				
			60				
			80				
			100				
			120				
Sodium hypochlorite	NaOCl	12,5% active chlorine, aqueous	20	o	o	o	+
			40	-	-		+
			60				+
			80				+
			100				+
			120				+
Sodium iodide	NaJ	all, aqueous	20	+	+	+	+
			40	+		+	+
			60	+		o	+
			80				+
			100				+
			120				+
Sodium nitrate	$NaNO_3$	cold saturated, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120			+	+
Sodium nitrite	$NaNO_2$	cold saturated, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120			+	+
Sodium oxalate	$Na_2C_2O_4$	cold saturated, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	o	
			80		+		
			100				
			120				
Sodium persulphate	$Na_2S_2O_8$	cold saturated, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+		
			100				
			120				
Sodium phosphate	Na_3PO_4	cold saturated, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	o	+
			100			-	+
			120				+
Sodium silicate	Na_2SiO_3	all, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	o	+

			80		+	-	+
			100				+
			120				+
Sodium sulphate	Na_2SO_4	cold saturated, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120			+	+
Sodium sulphide	Na_2S	cold saturated, aqueous	20	+	+	o	+
			40	+	+	o	+
			60	+	+	o	+
			80		+		+
			100				+
			120				+
Sodium sulphite	Na_2SO_3	cold saturated, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120				+
Sodium thiosulphate	$Na_2S_2O_3$	cold saturated, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120				+
Spindle oil			20	+	+	+	
			40	o	o	+	
			60	o	-	+	
			80			+	
			100				
			120				
Spinning bath acids containing carbon disulphide		100 mg CS2/l	20	+	+	+	
			40			+	
			60				
			80				
			100				
			120				
Spinning bath acids containing carbon disulphide		200 mg CS2/l	20	+	+	+	
			40			+	
			60				
			80				
			100				
			120				
Spinning bath acids containing carbon disulphide		700 mg CS2/l	20	+	+	+	
			40			+	
			60				
			80				
			100				
			120				
Stannous chloride	$SnCl_2$		20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+	+	
			100			+	
			120				
Starch solution		all, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80			+	+
			100			+	+
			120				+
Starch syrup		usual commercial	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80			+	
			100			+	
			120				
Stearic acid	$C_{17}H_{35}COOH$	technically pure	20	+	+	+	
			40			+	
			60	o/S	o	+	
			80			+	
			100			+	
			120			+	
Succinic acid	$HOOC-CH_2-CH_2-COOH$	aqueous, all	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80				+
			100				+
			120				
Sugar syrup		usual commercial	20	+	+	+	
			40	+	+	+	
			60	+	+	+	

			80		+	+	
			100			+	
			120			+	
Sulphur	S	technically pure	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120			+	+
Sulphur dioxide	SO_2	technically pure, anhydrous	20	+	+	o	+
			40	+	+	o	+
			60	+	+	-	+
			80				+
			100				+
			120				
Sulphur dioxide	SO_2	all, moist	20	+	+	+	+
			40	+	+	o	+
			60	+	+	-	
			80				
			100				
			120				
Sulphur dioxide	SO_2	technically pure, liquid	20	+	+	-	
			40				
			60				
			80				
			100				
			120				
Sulphur trioxide	SO_3		20	-	-	-	
			40				
			60				
			80				
			100				
			120				
Sulphuric acid	H_2SO_4	up to 40%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80			+	+
			100			+	+
			120			+	+
Sulphuric acid	H_2SO_4	up to 60%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80			+	+
			100			+	+
			120			+	+
Sulphuric acid	H_2SO_4	up to 80%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+/S	+/S	+	+
			80			+	+
			100			+	+
			120			o	+
Sulphuric acid	H_2SO_4	90%, aqueous	20	o/S	o/S	+	+
			40			+	+
			60			+	+
			80			+	+
			100			o	+
			120				+
Sulphuric acid	H_2SO_4	96%, aqueous	20	o/S	o/S	+	+
			40			o	+
			60			-	+
			80				+
			100				+
			120				+
Sulphurous acid	H_2SO_3	saturated, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80			+	+
			100			+	+
			120				
Sulphuryl chloride	SO_2Cl_2	technically pure	20	-	-	o	
			40				
			60				
			80				
			100				
			120				
Tallow		technically pure	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80			+	
			100			+	
			120				
Tannic acid		all, aqueous	20	+	+		
			40	+	+		
			60	+	o		

			80				
			100				
			120				
Tanning extracts from plants		usual	20	+	+	+	
			40				
			60		o		
			80				
			100				
			120				
Tartaric acid	$C_4H_6O_6$	all, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80			+	+
			100			+	+
			120			+	+
Tetrachloroethane	$Cl_2CH\text{-}CHCl_2$	technically pure	20	o	o	+	
			40			+	
			60			o	
			80				
			100				
			120				
Tetrachloroethylene, see Perchloroethylene			20				
			40				
			60				
			80				
			100				
			120				
Tetraethyl lead	$(CH_3CH_2)_4Pb$	technically pure	20	+	+	+	
			40			+	
			60			+	
			80			+	
			100			+	
			120			+	
Tetrahydrofurane	C_4H_8O	technically pure	20	o/S	o/S	o	-
			40			o	-
			60				-
			80				-
			100				-
			120				-
Tetrahydronaphthalene (also Tetralin)	$C_{10}H_{12}$	technically pure	20	-	-	+	
			40				
			60				
			80				
			100				
			120				
Thionyl chloride	$SOCl_2$	technically pure	20	-	-	-	+
			40				+
			60				
			80				
			100				
			120				
Toluene	$C_6H_5CH_3$	technically pure	20	-	+/S	+	+
			40			+	-
			60		o	o	-
			80			-	-
			100				-
			120				-
Tributylphosphate	$(C_4H_9)_3PO_4$	technically pure	20	+	+	+	+
			40	+	+		+
			60	+	+		o
			80				-
			100				-
			120				-
Trichlorethane	$Cl_3\text{-}C\text{-}CH_3$	technically pure	20	o		+	
			40			+	
			60			o	
			80			-	
			100				
			120				
Trichloroacetic acid	$Cl_3C\text{-}COOH$	technically pure	20	+	+	o	+
			40	o	+		+
			60	-	+		o
			80				-
			100				-
			120				-
Trichloroacetic acid	$Cl_3C\text{-}COOH$	50%, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	o	
			80			-	
			100				
			120				
Trichloroethylene	$Cl_2C{=}CHCl$	technically pure	20	-	-	+	+
			60			+	-
			100				-

Trichloromethane, see Chloroform			20				
			40				
			60				
			80				
			100				
			120				
Tricresyl phosphate	$(H_3CC_6H_5O)_3PO_4$	technically pure	20	+	+		+
			40	+			+
			60	+	o		+
			80				+
			100				+
			120				
Triethanolamine	$N(CH_2\text{-}CH_2\text{-}OH)_3$	technically pure	20	+	+	+	+
			40	+	+		-
			60	o/S	o		-
			80				-
			100				-
			120				-
Triethylamine	$N(CH_2\text{-}CH_3)_3$	technically pure	20	+	+	o	+
			40	o/S	o/S	o	+
			60			-	o
			80				-
			100				-
			120				-
Trifluorotrichloroethane (also Freon 113)	$FCl_2C\text{-}CClF_2$	technically pure	20	o/S	o/S	+	
			40				
			60				
			80				
			100				
			120				
Trioctylphosphate	$(C_8H_{17})_3PO_4$	technically pure	20	+	+		
			40	+			
			60				
			80				
			100				
			120				
Turpentine oil		technically pure	20	o	-	+	
			40	o			
			60	o			
			80				
			100				
			120				
Urea	$H_2N\text{-}CO\text{-}NH_2$	up to 30%, aqueous	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80			+	+
			100			o	+
			120				
Urine			20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80			+	
			100			+	
			120				
Vegetable oils and fats			20	+	+	+	
			40	o/S	+	+	
			60		o/S	+	
			80			+	
			100			+	
			120				
Vinegar		usual commercial	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120				
Vinyl acetate	$CH_2=CHOOCCH_3$	technically pure	20	+	+	+	+
			40	+	+	-	+
			60	o/S	o		o
			80				-
			100				-
			120				
Vinyl chloride	$CH_2=CHCl$	technically pure	20			+	
			40			+	
			60			+	
			80			+	
			100				
			120				
Viscose spinning solution			20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80				
			100				
			120				

Waste gases containing carbon dioxide		all	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+	+	
			100			+	
			120			+	
Waste gases containing carbon monoxide		all	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+	+	
			100			+	
			120				
Waste gases containing hydrochloric acid		all	20	+	+	+	
			40	+	+	+	
			60	+	o	+	
			80			+	
			100			+	
			120			+	
Waste gases containing hydrogen fluoride		traces	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80			+	
			100			+	
			120				
Waste gases containing nitrous gases		traces	20	+	+	+	
			40	+	+	+	
			60	+	o	+	
			80			+	
			100			+	
			120				
Waste gases containing sulphur dioxide		traces	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+	+	
			100			+	
			120			+	
Waste gases containing sulphur trioxide		all	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		o	+	
			100			+	
			120			+	
Waste gases containing sulphuric acid		traces	20	+	+	+	
			40	+	+	+	
			60	+	o	+	
			80			+	
			100			+	
			120				
Water (destilled, deionised)	H_2O		20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100		+	+	+
			120			+	+
Water, condensed			20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120			+	+
Water, drinking water			20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100		+	+	+
			120			+	+
Water, waste water without organic solvent			20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120			+	+
Wax alcohol	$C_{31}H_{63}OH$	technically pure	20	o	o	+	
			40	-	-	+	
			60			+	
			80				
			100				
			120				
Wetting agents		up to 5%, aqueous	20	+/S	+/S	+	
			40	+/S	+/S	+	
			60	+/S	+/S	+	
			80			+	
			100				
			120				

Wine vinegar		usual commercial	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120				
Wines, red and white		usual commercial	20	+	+	+	+
			40	+	+	+	+
			60	+	+	+	+
			80		+	+	+
			100			+	+
			120				
Xylene	$C_6H_4(CH_3)_2$	technically pure	20	o/S	-	+	+
			40			+	+
			60			o	+
			80			-	o
			100				-
			120				
Yeast		all, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	o	+	
			80			+	
			100				
			120				
Yeast wort		working concentration	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80				
			100				
			120				
Zinc salts		all, aqueous	20	+	+	+	
			40	+	+	+	
			60	+	+	+	
			80		+	+	
			100			+	
			120			+	