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Chemical Resistance Chart

Fibreglass Lining & Moulding
Fibreglass Grating & Safety Flooring
Surface Preparation & Coatings

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Spill Containment

Chemical Resistance Chart

The number in the column below Max ˚C is the maximum temperature allowed.
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Chemical	Concentration	Max ˚C	Notes
Acetaldehyde	100	NR	
Acetic acid	10	95	0
Acetic acid	15	95	0
Acetic acid	25	95	0
Acetic acid	40	80	
Acetic acid	50	70	
Acetic acid	75	60	
Acetic acid	80	45	
Acetic acid	85	45	
Acetic acid	100	NR	
Acetic acid glacial	100	NR	
Acetic anhydride	100	NR	9
Acetone	5	80	
Acetone	10	80	
Acetone	100	NR	
Acetone:			
Methylethyl ketone:	2:2:2	-	
Methylisobutyl ketone			
Acetonitrile	all	NR	
Acetyl chloride	100	NR	
Acrylamide	50	-	
Acrylic acid	25	45	
Acrylic acid	100	NR	
Acrylic Latex	all	80	
Acrylonitrile	100	NR	
Adipic acid	all	80	
Adipinonitrile	all	50	
Alfol 810	100	60	
Alkylaminopolyglycolether	all	25	
Alkylaryl ammonium salt	all	80	
Alkylaryl sulfonate salts	all	60	
Alkylaryl sulfonic acid	all	60	
Alkylbenzene ammonium salt	all	80	
Alkylbenzene sulfonic acid	all	60	
Alkylnaphtalene sulfonic acid	all	60	
Alkylnaphtolopolyglycolether	all	60	
Alkylol sulphates and salts	all	60	
Alkylolakoxylate	all	25	
Alkyloletherphosphate	all	60	
Alkylolethersulphate	all	60	

Chemical	Concentration	Max ˚C	Notes
Alkylphenolpolyglycolether	all	25	
Alkylphenolpolyglycolether sulphates			
and Salts	all	60	
Alkylsulfonate	all	60	
Alkylsulfonic acid and sulfonates	all	60	
allyl alcohol	100	NR	
allyl chloride	all	NR	9
Alpha methylstyrene	100	NR	
Alum	all	95	0
Aluminium chloride	all	95	0
Aluminium chlorohydrate	all	95	0
Aluminium chlorohydroxide	50	95	0
Aluminium citrate	all	95	0
Aluminium fluoride	all	45	2
Aluminium hydroxide	all	70	2
Aluminium nitrate	all	95	0
Aluminium potassium sulphate	all	95	0
Aluminium sodium sulphate	all	95	0
Aluminium sulphate	all	95	0
Aluminium sulphate/Acetic acid	all	80	9
Amino acids	all	40	
Aminosulphonic acid	all	80	
Ammonia (dry gas)	100	40	
Ammonia (wet gas)	100	40	
Ammonia, liquified gas	100	NR	
Ammonium acetate	all	45	
Ammonium benzoate	all	80	
Ammonium bicarbonate	4	70	
Ammonium bicarbonate	Sat'd	70	
Ammonium bifluoride	all	40	2
Ammonium bisulphide	all	25	
Ammonium bisulphite black Liquor		80	
Ammonium bromate	all	95	0
Ammonium bromide	all	95	0
Ammonium carbonate	all	65	2
Ammonium chloride	all	95	0
Ammonium citrate	all	70	
Ammonium fluoride	all	50	2
Ammonium hydroxide (aq. ammonia)	1	80	2
Ammonium hydroxide (aq. ammonia)	5	70	2

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Chemical	Concentration	Max ˚C	Notes
Ammonium hydroxide (aq. ammonia)	10	60	2
Ammonium hydroxide (aq. ammonia)	41.2	60	2
Ammonium hydroxide (aq. ammonia)	57.6	40	2
Ammonium hydroxide (aq. ammonia)	61.7	40	2
Ammonium lauryl sulphate	all	60	
Ammonium lignosulphonate	50	-	
Ammonium molybdate	all	40	
Ammonium nitrate	all	95	0
Ammonium oxalate	all	40	
Ammonium pentaborate	all	40	
Ammonium persulphate	all	80	
Ammonium phosphate, dibasic	1	95	0
Ammonium phosphate, dibasic	all	95	0
Ammonium phosphate, monobasic	all	95	0
Ammonium polysulphide	all	45	
Ammonium sulphate	all	95	0
Ammonium sulphide	all	45	
Ammonium sulphite	all	45	
Ammonium thiocyanate	20	95	0
Ammonium thiocyanate	Sat´d	45	
Ammonium thioglycolate	all	60	
Ammonium thiosulphate	all	60	
Amyl acetate (n-)	all	25	
Amyl alcohol (sec-) (=pentanol, sec)	100	50	
Amyl alcohol (tert-) (=pentanol, tert)	100	50	
Amyl chloride	all	NR	
Anaerobic sewage	-	50	
Aniline	100	NR	
Aniline	all	NR	
Aniline hydrochloride	all	80	
Aniline sulphate	all	95	0
Antimony pentachloride	all	40	
Antimony trichloride	all	80	
Aqua regia (HCl:HNO3 = 3 : 1)	all	NR	
Arsenic acid	all	80	
Arsenious acid	all	80	
Barium acetate	all	95	0
Barium bromide	all	95	9
Barium carbonate	all	95	0
Barium chloride	all	95	0
Barium cyanide	all	65	2
Barium hydroxide	Sat'd	65	2
Barium nitrate	all	95	0
Barium sulphate	all	95	0
Barium sulphide	all	60	
Beer		-	9
Beet sugar liquor		80	
Benzaldehyde	100	NR	
Benzene	100	NR	
Benzene	vapour	NR	
Benzene sulfonic acid	25	95	
Benzene sulfonic acid	50	95	
Benzene sulfonic acid	Sat'd	95	0
Benzene: Ethyl benzene	all	NR	
Benzoic acid	all	95	
Benzoquinones	100	80	
Benzoyl benzoic acid (2-)	all	95	
Benzoyl benzoic acid (4-)	all	95	
Benzyl alcohol (= hydroxy toluene)	all	NR	
Benzyl chloride	100	NR	
Benzyl chloride	all	-	
Benzyltrimethylammonium chloride	all	60	
Black Liquor (pulp mill)	all	80	
Bleach, chlorine dioxide, wet	Sat'd	50	5,9
Bleach, chlorine water	Sat'd	80	
Bleach, chlorite	10	65	10
Bleach, hydrosulphite		40	11
Bleach, Lithium hypochlorite, pH > 11, active chlorine < 18%		50	2,3,4,5,9
Bleach, Peroxide	Dil.	95	0,4,12
Bleach, Sodium hypochlorite, pH > 11, active chlorine < 18%		50	2,3,4,5,9
Bleach, Calcium hypochlorite, pH > 11, active chlorine < 18%		50	2,3,4,5,9
Borax (sodium tetraborate)	all	95	0
Boric acid	all	95	0
Brine chlorinated	all	95	0
Brine, salt	all	95	0
Bromine	Liquid	NR	

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Chemical	Concentration	Max ˚C	Notes
Bromine gas	dry	40	
Bromine gas	wet	40	
Bromine water	5	80	
Butanediol (1,2-)	all	80	
Butanediol (1,3-)	all	80	
Butanediol (1,4-)	all	80	
Butanediol (2,3-)	all	80	
Butanol (n-) (= butyl alcohol, n-)	100	40	
Butanol (n-) (= butyl alcohol, n-)	5	80	
Butanol (sec-) (= butyl alcohol, sec-)	100	40	
Butanol (sec-) (= butyl alcohol, sec-)	5	80	
Butanol (tert-) (= butyl alcohol, tert-)	20	80	
Butanol (tert-) (= butyl alcohol, tert-)	100	40	
Butoxydiethylene glycol	100	NR	
Butoxyethanol (2-)	100	35	
Butoxyethoxyethanol (2,2-)	100	NR	
Butyl acetate (n-)	100	NR	
Butyl acetate (sec-)	100	NR	
Butyl acetate (tert-)	100	NR	
Butyl acrylate	100	NR	
Butyl amine (n-)	40	25	
Butyl amine (n-)	100	NR	
Butyl amine (sec-)	40	25	
Butyl amine (sec-)	100	NR	
Butyl amine (tert-)	40	25	
Butyl amine (tert-)	100	NR	
Butyl benzoate	100	NR	
Butyl benzyl phthalate	100	90	
Butyl carbitol	100	NR	
Butyl cellosolve	100	40	
Butyl diglycol	100	NR	
Butyl stearate (5% in mineral spirits)		-	
Butylaldehyde	100	NR	
Butylene glycol	100	80	
Butylene glycol	all	80	
Butylene oxide	100	NR	
Butyric acid	50	65	
Butyric acid	85	45	
Butyric acid	100	NR	

Chemical	Concentration	Max ˚C	Notes
Cadmium chloride	all	90	0
Calcium bisulphite	all	80	
Calcium bromide	all	95	0
Calcium carbonate	Sat'd	95	0
Calcium chlorate	all	95	0
Calcium chloride	all	95	0
Calcium hydroxide	Sat'd	80	
Calcium hypochlorite, pH > 11,			
active chlorine < 18%		50	2,3,4,5,9
Calcium nitrate	all	95	0
Calcium sulphate	all	95	0
Calcium sulphite	all	80	
Cane sugar liquor & sweet water	all	80	
Capric acid	100	90	
Caprolactam	50	40	
Caprylic acid	100	90	
Caprylic acid	all	90	0
Carbolic acid	1	45	
Carbolic acid	2	NR	
Carbolic acid	5	NR	
Carbolic acid	> 5	NR	
Carbon dioxide gas, dry		150	0
Carbon disulphide	100	NR	
Carbon monoxide gas, dry		150	0
Carbon tetrachloride	100	45	
Carbonic acid	all	80	
CARBOWAX, polyethylene glycol	100	80	
Carboxy ethylcellulose	10	70	
Carboxy methylcellulose	all	70	
Cashew nut oil	100	80	
Castor oil	100	95	
Cereclor 42, S-52	all	70	
Chloric acid	conc	25	
Chlorinated lime	all	60	
Chlorinated waxes	100	70	
Chlorinated waxes	all	70	
Chlorine	liquid	NR	
Chlorine dioxide, dry	all	50	5,9
Chlorine dioxide, wet	Sat'd	50	5,9
Chlorine gas, dry	100	95	0,6,7

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Chemical	Concentration	Max ˚C	Notes
Chlorine gas, wet	100	95	0,6,7
Chlorine/Hydrochloric acid, wet		NR	
Chloroacetic acid	1	50	
Chloroacetic acid	25	50	
Chloroacetic acid	50	50	
Chloroacetic acid	80	NR	
Chlorobenzene	100	NR	
Chlorocholinchloride	75	60	
Chloroethylene (1,1,1-)	100	NR	
Chloroform	100	NR	
Chloroparaffin	100	70	
Chloropropionic acid (-2)	50	25	
Chloropropionic acid (-2)	all	25	
Chloropropionic acid (-3)	50	25	
Chloropropionic acid (-3)	all	25	
Chloropyridine (tetra)	100	NR	
Chlorosulphonic acid	10	NR	
Chlorosulphonic acid	100	NR	
Chlorotoluene	100	NR	
Chrome plating solution	-	NR	
Chrome plating solution with sulphuric acid	-	NR	
Chromic acid	1	60	9
Chromic acid	5	45	9
Chromic acid	10	45	9
Chromic acid	20	NR	9
Chromic acid	30	NR	
Chromic sulphate	all	95	0
Chromic/Sulphuric acid	2.5:13.7	NR	
Chromic/Sulphuric acid, 10% maximum concentration mixture	10	-	9
Chromous sulphate	all	60	
Cinnamaldehyde	100	NR	
Citric acid	50	95	0
Citric acid	100	95	0
Cobalt chloride	all	95	
Cobalt citrate	all	80	
Cobalt nitrate	all	95	
Coconut fatty acid	100	90	
Coconut oil	100	95	
Cod liver oil	100	95	

Chemical	Concentration	Max ˚C	Notes
Copper acetate	all	80	
Copper ammonium chloride	all	80	
Copper cyanide	all	95	0,2
Copper(I) chloride	all	95	0
Copper(I) nitrate	all	95	0
Copper(I) sulphate	all	95	0
Copper(II) chloride	all	95	0
Copper(II) nitrate	all	95	0
Copper(II) sulphate	all	95	0
Corn oil	100	95	
Corn starch slurry	all	95	
Corn steep liquor	all	95	
Corn sugar	all	95	
Corn syrup	all	95	
Cottonseed oil	100	95	
Cresol (m-)	10	NR	
Cresol (o-)	10	NR	
Cresol (p-)	10	NR	
Cresylic acids	all	NR	9
Crude oil, sour and sweet	100	95	
Cyclohexane	100	NR	
Cyclohexanol	100	50	
Cyclohexanone	100	NR	
Cyclohexylamine	100	NR	
Decalin	all	60	
Decanes	100	90	
Decanol (decyl alcohol)	100	80	
Decenes	100	90	
Deionised water	100	80	
Demineralised water	100	80	
Detergents, sulphonated	100	95	
Detergents, sulphonated	all	95	
Di 2-ethylhexyl phosphoric acid (in kerosene)	20	95	
Diallylphthalate	100	80	
Diallylphthalate	all	80	
Diammonium phosphate	all	90	
Dibromophenol	100	NR	
Dibromopropanol	100	NR	

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Chemical	Concentration	Max ˚C	Notes
Dibromopropanol	all	NR	
Dibutyl ether	100	NR	
Dibutyl phthalate	100	80	
Dibutyl phthalate	all	80	0
Dibutyl sebacate	all	60	
Dibutylamine (n-)	100	25	
Dichloroacetic acid	80	NR	
Dichlorobenzene	100	NR	
Dichlorobenzene (m-)	100	NR	
Dichlorobenzene (o-)	100	NR	
Dichlorobenzene (p-)	100	NR	
Dichloroethane (-1,1)	100	NR	
Dichloroethane (-1,2) (=dichloroethylene)	100	NR	
Dichloroethene	100	NR	
Dichloromethane	0,2	25	
Dichloromethane	100	NR	
Dichloropropane (-1,1)	100	NR	
Dichloropropane (-1,2)	100	NR	
Dichloropropene	100	NR	
Dichloropropionic acid	100	NR	
Dichlorotoluene	100	NR	
Diesel fuel	100	80	9
Diesel fuel, no aromatics, no methanol	100	80	
Diethanol amine	100	45	
Diethyl amine	40	25	
Diethyl amine	100	NR	
Diethyl aniline N,N	100	NR	
Diethyl benzene	100	NR	
Diethyl carbonate	100	NR	
Diethyl ether	100	NR	
Diethyl formamide	100	NR	
Diethyl ketone	100	NR	
Diethyl maleate	100	NR	
Diethyl maleate	all	NR	
Diethyl phtalate	100	60	
Diethyl sulphate	100	NR	
Diethylene glycol	100	95	
Diethylene glycol	all	95	0
Diethylene glycol dimethyl ether	100	NR	
Diethylene glycol monobutyl ether	100	NR	

Chemical	Concentration	Max ˚C	Notes
Diethylenetriamine	100	NR	
Diisobutyl ketone	100	NR	
Diisobutyl phthalate	100	80	
Diisobutylene	100	NR	
Diisopropanol amine	100	40	
Diisopropyl amine	all	25	
Dimethyl acetamide	100	NR	
Dimethyl amine (DMA)	100	25	
Dimethyl formamide (DMF)	100	NR	
Dimethyl phthalate	100	65	
Dimethyl sulphate	100	NR	
Dimethyl sulphide	100	NR	
Dimethyl sulphoxide	20	NR	
Dimethyl sulphoxide	100	NR	
Dimethyl aniline (=xylidine)	100	NR	
Dimethyl morpholine (2,6-)	100	NR	
Dinonyl phthalate	100	60	
Dioctyl phthalate	100	60	
Dioctylsulfosuccinate sodium salt	all	80	
Dioxane (1,4-)	all	NR.	
Diphenyl ether	100	50	
Dipiperazine sulphate solution	all	40	
Dipotassium hydrogenphosphate	0,5	95	0
Dipotassium hydrogenphosphate	10	95	0
Dipropylamine (n-)	50	25	
Dipropylene glycol	100	95	
Dipropylene glycol	all	95	0
Disodium hydrogenphosphate	0,5	95	0
Disodium hydrogenphosphate	10	95	0
Dispersions, copolymer vinyl acetate/ vinyl versatate	50	25	
Divinyl benzene	100	NR	
Dodecanol	100	80	
Dodecene	100	80	
Dodecyl benzene sulphonic acid	all	95	
Dodecyl guanidine hydrochloride	all	80	
Dowanol DB glycolether	all	25	
Embalming fluid	100	45	
Epichlorohydrin	100	NR	
Epoxidised Vegetable oils	100	90	

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Chemical	Concentration	Max ˚C	Notes
Epoxidized Castor oil	100	90	
Epoxidized Soybean oil	100	90	
Epoxy Resins - Epikote 828	100	45	24
Esters, Fatty acid	100	95	
Ethanol (= ethyl alcohol)	1	60	
Ethanol (= ethyl alcohol)	10	60	
Ethanol (= ethyl alcohol)	20	50	
Ethanol (= ethyl alcohol)	50	40	
Ethanol (= ethyl alcohol)	96	25	
Ethanol (= ethyl alcohol)	100	NR	
Ethanol amine	100	NR	
Ethyl acetate	100	NR	
Ethyl acrylate	100	NR	
Ethyl amine	40	25	
Ethyl benzene	100	NR	
Ethyl bromide	100	NR	
Ethyl chloride	100	NR.	
Ethyl chlorohydrin	100	45	
Ethyl ether	100	NR	
Ethyl sulphate	100	NR	
Ethylene chloride	100	NR	
Ethylene chlorohydrin	100	45	
Ethylene diaminetetraacetic acid, EDTA	all	45	
Ethylene dibromide	100	NR	
Ethylene dichloride	100	NR	
Ethylene glycol	100	95	
Ethylene glycol	all	95	0
Ethylene glycol monobutyl ether	100	NR	
Ethylene oxide	100	NR	
Ethylhexanol (2-)	all	80	
Ethylhexylacrylate (-2)	100	25	
Eucalyptus oil	100	90	
Fatty acid esters	100	95	
Fatty acids (C12 or higher)	all	95	
Ferric acetate	all	80	0
Ferric chloride (III)	all	95	0
Ferric chloride : Ferric sulphate	all	95	0
Ferric chloride: Ferrous chloride	5.0:20	95	0
Ferric chloride: Ferrous chloride	48:0.2:0.2	95	0,8

Chemical	Concentration	Max ˚C	Notes
Hydrochloric acid			
Ferric chloride: Hydrochloric acid	29:18	80	0,8
Ferric nitrate	all	95	0
Ferric sulphate	all	95	0
Ferric sulphate : Sulphuric acid	Sat'd:10	80	
Ferrous chloride (II)	all	95	0
Ferrous chloride: Ferric chloride	20:5.0	95	0
Ferrous chloride-Hydrochloric acid	all	50	8,9
Ferrous nitrate	all	95	0
Ferrous sulphate	all	95	0
Ferrous sulphate : Magnesium oxide		95	0
Fertiliser Uran		60	23
Fertiliser, 8-8-8		60	22
Fertilizer, Ureaammonium Cont'D 35,4%		60	
UREA			
Flue gas, dry	100	150	0
Flue gas, wet	100	95	0
Fluoboric acid	10	80	0,2,9
Fluoboric acid	15	70	2,9
Fluoboric acid	25	60	2
Fluoboric acid	Sat'd	50	2,9
Fluoride salts: Hydrochloric acid	30:10	50	2
Fluorine gas		-	2,9
Fluorocarbon 11	100	45	
Fluosilicic acid	10	65	2,9
Fluosilicic acid	25	40	2,9
Fluosilicic acid	35	25	2,9
Fluosilicic acid	fumes	80	2,9
Formaldehyde	50	50	
Formamide	100	NR	
Formic acid	10	65	
Formic acid	30	65	
Formic acid	50	45	
Formic acid	85	25	
Formic acid	98	NR	
FREON 11	100	25	
Fuel oil, no Aromatics, no Methanol	100	95	
Furfural	5	70	
Furfural	20	45	
Furfural	100	NR	

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Chemical	Concentration	Max ˚C	Notes
Furfuryl alcohol	100	NR	
Gallic acid	all	60	
Gasoline fuel	100	-	9
Gluconic acid	50	45	
Glucose	all	95	0
Glutaraldehyde	50	25	
Glutaric acid	all	60	
Glycerine	100	95	
Glycerine triacetate	all	-	
Glycolic acid	35	60	
Glycolic acid	70	25	
Glyme		NR	
Glyoxal	40	45	
Green liquor (pulp mill)		95	0,9
Gypsum slurry; phosphoric acid; fluorine water		45	
Heavy aromatic naphta (HAN)	100	45	
Heptane	100	90	
Heptene	100	90	
Hexachlorocyclopentadiene	100	40	
Hexachloroethane	100	NR	
Hexamethylenetetramine	60	45	
Hexane	100	60	
Hexanediol	100	80	
Hexanediol	all	80	
Hexene	100	60	
Hexene (2-)	100	60	
Hexene (2-trans-)	100	60	
Hexene (3-trans-)	100	60	
Hydraulic Fluid, alkaline	100	25	
Hydraulic Fluid, neutral	100	90	
Hydrazine	50	NR	
Hydrazine	100	NR	
Hydrazine hydrate	16	30	
Hydrobromic acid	1	80	0,8
Hydrobromic acid	10	80	0,8
Hydrobromic acid	18	80	0,8
Hydrobromic acid	26	80	8,9

Chemical	Concentration	Max ˚C	Notes
Hydrobromic acid	48	70	8,9
Hydrobromic acid	62	40	8,9
Hydrochloric acid	1	80	0,7,8
Hydrochloric acid	5	80	0,7,8
Hydrochloric acid	10	80	0,7,8
Hydrochloric acid	15	80	0,7,8
Hydrochloric acid	18	80	0,7,8
Hydrochloric acid	20	70	0,7,8
Hydrochloric acid	21	70	0,7,8
Hydrochloric acid	25	55	7,8,9
Hydrochloric acid	26	40	7,8,9
Hydrochloric acid	32	40	7,8,9
Hydrochloric acid	37	40	7,8,9
Hydrochloric acid	fumes	95	0,7,8,9
Hydrochloric acid and organics		NR	6,8,9
Hydrochloric, sulphuric and acetic acid		55	6,8,9
Hydrocyanic acid	10	95	0,9
Hydrofluoric acid	1	50	2,9
Hydrofluoric acid	10	50	2,9
Hydrofluoric acid	20	40	2,9
Hydrofluoric acid	30	NR	
Hydrofluosilicic acid	10	65	2,9
Hydrofluosilicic acid	25	40	2,9
Hydrofluosilicic acid	35	25	2,9
Hydrofluosilicic acid	fumes	80	2,9
Hydrogen bromide gas, dry	all	-	9
Hydrogen bromide gas, wet	all	80	0,9
Hydrogen chloride gas, dry	all	80	0,8,9
Hydrogen chloride gas, wet	all	80	0,8,9
Hydrogen fluoride gas, dry	all	-	9
Hydrogen fluoride gas, wet	all	-	9
Hydrogen peroxide	5	65	4
Hydrogen peroxide	30	40	4
Hydrogen sulphide, gas	5	150	0
Hydrogen sulphide, gas	100	95	0
Hydroxyacetic acid	35	60	
Hydroxyacetic acid	70	25	
Hydroxybenzenesulfonic acid	all	60	
Hypochlorous acid	10	25	9
Hypochlorous acid	20	25	9

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Chemical Resistance Chart

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Chemical	Concentration	Max ˚C	Notes
Hypochlorous acid	50	25	9
Hypophosphorous acid	50	-	9
Iodine	cristals	65	
Iodine	vapour	-	
Isoamyl alcohol (=isobutylcarbinol)	100	50	
Isobutanol (=isobutyl alcohol)	100	40	
Isobutanol (=isobutyl alcohol)	5	80	
Isodecanol	100	80	
Isononyl alcohol	100	80	
Isooctyl adipate	100	80	
isooctyl alcohol	100	80	
Isopropanol (=isopropyl alcohol)	20	60	
Isopropanol (=isopropyl alcohol)	100	25	
Isopropyl myristate	100	95	
Isopropyl palmitate	100	95	0
Isopropyl palmitate	all	95	0
Isopropyl sulphate	all	25	
Isopropylamine	40	25	
Isopropylamine	100	NR	
Itaconic acid	40	60	
Itaconic acid	Sat'd	50	
Jet fuel	100	-	9
Jojoba oil	100	80	
Kerosene	100	-	9
Lactic acid	10	80	
Lactic acid	80	25	
Latex, alkaline	all	25	
Latex, paint emulsion	all	45	
Latex, PVA emulsion	all	45	
Latex, rubber emulsion	all	45	
Lauric acid	100	95	
Lauroyl alcohol	all	90	
Lauroyl chloride	all	50	
Lauryl alcohol	all	90	
Lauryl chloride	all	50	
Lauryl ether sulphate	all	60	

Chemical	Concentration	Max ˚C	Notes
Lauryl mercaptan	all	90	
Lead acetate	all	80	
Lead chloride	all	95	0
Lead nitrate	all	95	0
Levulinic acid	all	95	
Lignin sulphate, PH 3-7	all	80	
Ligninsulfonate sodium salt	all	80	
Linoleic acid	100	95	
Linolenic acid	100	95	
Linseed oil	100	95	
Liquid sugar	all	80	
Lithium bromide	all	95	0
Lithium carbonate	1	95	0,2
Lithium carbonate	Sat'd	80	0,2
Lithium chloride	all	95	0
Lithium hydroxide	Sat'd	40	2
Lithium hypochlorite, pH > 11, active chlorine < 18%		50	2,3,4,5,9
Lithium sulphate	all	95	0
Magnesium bicarbonate	all	80	
Magnesium bisulphite	all	80	
Magnesium carbonate	Sat'd	95	0,2
Magnesium chloride	all	95	0
Magnesium fluosilicate	37.5	60	2
Magnesium hydroxide	Sat'd	95	0,2
Magnesium nitrate	all	95	0
Magnesium silicofluoride	37.5	60	2
Magnesium sulphate	all	95	0
Maleic acid	all	95	0
Maleic anhydride	100	95	
Manganese sulphate/Sulphuric acid	90:10	95	0
Manganese(II)chloride	all	95	0
Manganese(II)nitrate	all	95	0
Manganous sulphate	all	95	0
Maple syrup	all	80	
Melamine resins	all	25	
Mercaptoacetic acid	all	NR	
Mercaptopropionic -2	10	80	
Mercuric chloride	all	95	0

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Chemical	Concentration	Max ˚C	Notes
Mercuric nitrate	all	95	0
Mercurous chloride (mercuric(I)chloride)	all	95	0
Mercury (quick silver)	100	95	
Methacrylic acid	40	25	
Methanesulphonic acid	all	40	
Methanol (=methyl alcohol)	5	35	
Methanol (=methyl alcohol)	100	NR	
Methoxyethylacetate	100	NR	
Methyl bromide, gas	10	NR	
Methyl ethyl ketone	100	NR	
Methyl isobutyl ketone	100	NR	
Methyl methacrylate	100	NR	
Methyl methacrylate	all	NR	
Methyl-2-pentanediol-2,4	100	80	
Methylamine	40	25	
Methylamine	100	NR	
Methylaniline	100	NR	
Methylcellosolve	100	NR	
Methylchlorophenoxyacetic acid (MCPA)	100	25	
Methylchlorophenoxypropionic acid (MCPP)	100	25	
Methyldiethanolamine	100	-	
Methylene bromide	100	NR	
Methylene chloride	0,2	25	
Methylene chloride	100	NR	
Methyleneblue salts PH 2-5.5, aq	all	40	
Methylpentanol (2-)	100	80	
Methylstyrene	100	NR	
Milk and milk products	all	70	9
Mineral oils	100	95	
Molasses & invert molasses (2<pH<9)	100	80	
Molybdic acid	Sat'd	65	9
Monochloroacetic acid	50	50	
Monochloroacetic acid	80	NR	
Monochloroacetic acid	100	NR	
Monochlorobenzene	100	NR	
Monoethanol amine	100	NR	
Monomethylhydrazine	100	NR	
Morpholine	100	NR	
Motor oil	100	95	

Chemical	Concentration	Max ˚C	Notes
Muriatic acid (=Hydrochloric acid)			
Mustard	all	90	9
Myristic acid	100	95	
Naphta heavy aromatic	100	45	
Naphta, aliphatic	100	90	
Naphtalene	all	60	
Naphtenoic acid (1-)	all	95	0
Naphtenoic acid (2-)	all	95	0
Naphthylamine-1-sulphonic acid (2-)	all	-	0,9
Neopentyl glycol	100	80	80
Neopentyl glycol	all	80	
Nickel chloride	all	95	0
Nickel nitrate	all	95	0
Nickel sulphate	all	95	0
Nicotinic acid	all	45	
Nitric acid	2	85	0,8
Nitric acid	5	70	0,8,9
Nitric acid	10	60	8,9
Nitric acid	15	60	8,9
Nitric acid	20	50	8,9
Nitric acid	25	50	8,9
Nitric acid	30	40	8,9
Nitric acid	35	40	8,9
Nitric acid	40	NR	8,9
Nitric acid	50	NR	8,9
Nitric acid	60	NR	
Nitric acid	fumes	80	8,9
Nitric acid:Chromic acid	15:3	NR	9
Nitrobenzene	100	NR	
Nitrogen	100	150	0
Nitrogen tetroxide	100	NR	
Nitrous acid	10	25	9
N-methyl-2-pyrrolidone (NMP)	3	60	
N-methyl-2-pyrrolidone (NMP)	100	NR	
Nonanes	100	90	
Nonenes	100	90	
Octane	100	90	
Octanoic acid (see caprylic acid)	100	80	

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Chemical	Concentration	Max ˚C	Notes
Octanoic acid (see caprylic acid)	all	90	
Octanol (1-) (=octyl alcohol, 1-)	100	80	
Octanol (2-) (=octyl alcohol, 2-)	100	80	
Octene	100	90	
Octylamine (2-)	100	45	
Octylamine (n-)	100	45	
Octylamine (tert-)	100	45	
Oil, sour and sweet crude	100	95	
Oils (Grease, Lube, Vegetable)	100	90	
Oleic acid	100	95	
Oleum (fuming sulphuric acid)		NR	
Olive oil	100	95	
Orange oil	100	80	
Oxalic acid	20	95	0
Oxalic acid	Sat'd.	95	0
Ozone gas	all	NR	9
Palm oil	100	95	
Palmitic acid	100	95	
Palmitoyl chloride	all	50	
Paper mill effluent		-	9
Paraffin wax	100	90	
Peanut oil	100	95	
Pentachloroethane	100	NR	
Pentane	100	35	
Pentanedioic acid	all	60	
Pentanol (=amyl alcohol)	100	50	
Pentasodium triphosphate (Na5O10P3)	all	95	0
Pentene	100	30	
Peracetic acid:Acetic acid:Hydrogen peroxide:water	23:20:15 42:	25	3,4,9
Perchloric acid	10	-	9
Perchloric acid	20	-	9
Perchloric acid	30	-	9
Perchloric acid	70	-	
Perchloroethylene	100	40	
Peroxide bleach	diluted	95	9
Phenol (Carbolic acid)	1	45	
Phenol (Carbolic acid)	2	NR	
Phenol (Carbolic acid)	5	NR	

Chemical	Concentration	Max ˚C	Notes
Phenol (Carbolic acid)	> 5	NR	
Phenolformaldehyde resin	all	40	
Phenolsulphonic acid	all	-	
Phosphoric acid	50	95	0
Phosphoric acid	80	95	0,28
Phosphoric acid	95	95	0,28
Phosphoric acid	105	95	0,28
Phosphoric acid	115	95	0,28
Phosphoric acid	85	95	0,28
Phosphorous acid	70	35	
Phosphorous trichloride	100	NR	
Phossy water		NR	9
Phthalates/Phthalate esters	all	60	
Phthalic acid	100	95	
Phthalic acid	all	95	0
Phthalic anhydride	100	95	
Phthalic anhydride	Sat'd.	95	0
Picric acid	10	25	
Pine oil	100	90	
Pine oil disinfectant	100	50	
Piperazine dihydrochloride	all	45	
Plating solution, Cadmium		60	2,13
Plating solution, Chrome		NR	1,9,14
Plating solution, Copper		70	
Plating solution, Gold		95	0,15
Plating solution, Lead		95	0,2,16
Plating solution, Nickel		95	0,17,18
Plating solution, Platinum		80	0,9
Plating solution, Siver		95	0,2,19
Plating solution, Tin Fluoborate		80	0,2,20
Plating solution, Zinc Fluoborate		95	0,2,9,21
Pluronic surfactant 25R-2	all	60	
Polyacrylamide	all	-	
Polyester resins	100	NR	
Polyethylene glycol	100	95	
Polyethylene glycol	all	95	0
Polymeric phosphoric acid	115	95	0,28
Polyols	100	80	
Polyols	all	80	
Polyphosphoric acid	115	95	0,28

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Chemical	Concentration	Max ˚C	Notes
Polyvinyl acetate emulsion	all	45	
Polyvinyl alcohol	all	80	
Potassium aluminium sulphate	all	95	0
Potassium amyl xanthate	5	65	9
Potassium bicarbonate	all	80	
Potassium bromate	all	95	0
Potassium bromide	all	95	0
Potassium carbonate	10	80	
Potassium carbonate	Sat'd	65	
Potassium chlorate	all	95	0
Potassium chloride	all	95	0
Potassium chromate	all	95	
Potassium cyanide	all	65	2
Potassium dichromate	all	95	
Potassium dihydrogenphosphate	all	95	0
Potassium ferricyanide	all	95	0
Potassium ferrocyanide	all	95	0
Potassium fluoride	all	60	2
Potassium gold cyanide	12	-	35
Potassium hydroxide	1	40	2,3,9
Potassium hydroxide	10	40	2,3,9
Potassium hydroxide	25	40	2,3,9
Potassium hydroxide	Sat'd	40	2,3,9
Potassium iodide	all	65	
Potassium nitrate	all	95	0
Potassium nitrite	all	95	0
Potassium orthophosphate, tribasic (K3O4P.12H2O)	0.03	80	
Potassium orthophosphate, tribasic (K3O4P.12H2O)	all	50	2
Potassium oxalate	all	95	
Potassium permanganate	all	95	0
Potassium persulphate	all	95	0
Potassium pyrophosphate	60	95	0
Potassium silicofluoride	all	-	2
Potassium sulphate	all	95	0
Propanol (1-) (= propyl alcohol, 1-)	20	60	
Propanol (1-) (= propyl alcohol, 1-)	100	25	
Propanol (2-) (= propyl alcohol, 2-)	20	60	
Propanol (2-) (= propyl alcohol, 2-)	100	25	

Chemical	Concentration	Max ˚C	Notes
Propionic acid	40	60	
Propionic acid	100	NR	
Propylamine (n-)	40	25	
Propylamine (n-)	100	NR	
Propylene glycol	100	95	
Propylene glycol	all	95	0
Pyridine	100	NR	
Quarternary ammonium salts	25	65	
Rayon spin bath		60	
Ref. Fuel C (Isooctane/Toluene)	100	-	
Renex detergents	all	65	
Rosin sizes		80	
Salicylaldehyde	100	-	
Salicylic acid	all	65	
Salt brine (see sodium chloride)	all	95	0
Sea water		95	0
Selenious acid	all	80	
Sewage municipal	all	-	9
Silicone oils or greases	100	90	
Silver cyanide	all	95	0
Silver nitrate	all	95	0
Soaps	all	60	
Sodium acetate	all	95	0
Sodium alkylaryl sulphonate	all	80	
Sodium aluminate	all	65	
Sodium benzoate	all	80	
Sodium bicarbonate	all	80	
Sodium bicarbonate:Sodium carbonate	15:2	65	2
Sodium bifluoride	all	40	2
Sodium bisulphate	all	95	0
Sodium bisulphite	all	95	0
Sodium borate	all	95	0
Sodium borohydride:Sodium hydroxide	12:48	45	2,9
Sodium bromate	all	95	0
Sodium bromide	all	95	0
Sodium bromide:Sodium bromate	20:20	95	0
Sodium butyl xanthane	5	65	

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Chemical	Concentration	Max ˚C	Notes
Sodium carbonate	10	80	2
Sodium carbonate	Sat'd	65	2
Sodium chlorate	all	95	0
Sodium chloride	all	95	0
Sodium chlorite	10	65	
Sodium chlorite	50	40	
Sodium chromate	50	95	0
Sodium cyanide	5	95	0,2
Sodium cyanide	10	65	2
Sodium cyanide	15	65	2
Sodium dichromate	all	95	
Sodium dihydrogenphosphate	all	95	0
Sodium diphosphate	all	95	0
Sodium dodecylbenzene sulphonate	all	80	80
Sodium ethyl xanthate	5	65	9
Sodium ferric cyanide	all	95	0
Sodium ferro cyanide	all	95	0
Sodium fluoride	all	80	2
Sodium fluorosilicate	all	50	2
Sodium hexametaphosphate	all	80	
Sodium hydrosulphide	all	80	
Sodium hydrosulphite	all	40	
Sodium hydroxide	1	40	2,3,9
Sodium hydroxide	5	40	2,3,9
Sodium hydroxide	25	40	2,3,9
Sodium hydroxide	50	40	2,3,9
Sodium hydroxide-Chlorine gas		-	9
Sodium hypochlorite, pH > 11,		50	2,3,4,5,9
active chlorine < 18%			
Sodium lauryl sulphate	all	70	
Sodium monophosphate	0.5	95	0
Sodium monophosphate	10	95	0
Sodium nitrate	all	95	0
Sodium nitrite	all	95	0
Sodium orthophosphate, tribasic	0.03	80	
(Na3O4P.12H2O)			
Sodium orthophosphate, tribasic	all	50	2
(Na3O4P.12H2O)			
Sodium oxalate	all	95	
Sodium persulphate	all	95	9

Chemical	Concentration	Max ˚C	Notes
Sodium polyacrylate	all	65	
Sodium silicate (water glass)	all	65	2
Sodium sulphate	all	95	0
Sodium sulphhydrate	all	80	
Sodium sulphide	all	95	0
Sodium sulphite	all	95	
Sodium tartrate	all	90	
Sodium tetraborate	all	95	0
Sodium thiocyanate	all	80	0
Sodium thiosulphate	all	80	0
Sodium tridecylsulphate	all	80	0
Sodium triphosphate	all	95	0
(Na5O10P3)			
Sodium tripolyphosphate	all	95	0
(Na5O10P3)			
Sodium xylene sulphonate	all	95	0
Sorbitol solutions	all	65	0
Soy sauce		45	9
Soya oil		100	95
Soybean oil		100	95
Span surfactant	all	65	9,25
Spearmint oil	100	90	
Stannic chloride	all	95	0
Stannous chloride	all	95	0
Stannous sulphate	all	95	0
Starch 4 < pH < 9	all	95	0
Stearic acid	100	95	
Stearic acid	all	95	
Styrene	100	NR	
Succinic acid	all	80	
Succinonitril (aqueous)	all	80	
Sucrose	all	90	0
Sulphamic acid	10	95	0
Sulphamic acid	25	65	
Sulphanilic acid	all	80	0
Sulphated detergents	all	80	
Sulphite/Sulphate liquors (pulp mill)		95	9
Sulphonated detergents	all	80	
Sulphonyl chloride, aromatic	all	NR	
Sulphur	100	-	0

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Chemical	Concentration	Max ˚C	Notes
Sulphur chloride	all	NR	
Sulphur dichloride	all	NR	
Sulphur dioxide gas, dry	all	80	
Sulphur dioxide gas, wet	all	80	
Sulphur trioxide gas	-	9	
Sulphuric acid	1	90	0,8
Sulphuric acid	5	90	0,8
Sulphuric acid	10	90	0,8
Sulphuric acid	25	90	0,8
Sulphuric acid	50	90	0,8
Sulphuric acid	60	75	8,9
Sulphuric acid	70	75	8,9
Sulphuric acid	75	40	8,9
Sulphuric acid	80	-	8,9
Sulphuric acid	93	NR	
Sulphuric acid (= oleum)	Fuming	NR	
Sulphuric acid : Ferrous sulphate	10:Sat'd	95	0
Sulphuric acid : Phosphoric acid	10:20	80	
Sulphurous acid	10	45	9
Sulphuryl chloride	100	NR	
Superphosphoric acid (105% H3PO4)	105	95	0, 28
Tall oil	100	65	
Tall oil	all	65	0
Tannic acid	all	95	
Tartaric acid	all	95	0
Tetrachloroethane (-1,1,1,2)	100	NR	
Tetrachloroethane (-1,1,2,2)	100	NR	
Tetrachloroethene (perchloroethene)	100	40	
Tetrachloromethane	100	45	
Tetrachloropentane	100	NR	
Tetrachloropyridine	100	NR	
Tetrapotassium pyrophosphate	5	95	0
Tetrapotassium pyrophosphate	60	50	
Tetrasodium ethylenediaminetetraacetate	all	50	
Tetrasodium pyrophosphate	5	95	0
Tetrasodium pyrophosphate	60	50	
Thioglycolic acid	10	50	3
Thioglycolic acid	80	NR	3
Thioglycolic acid	100	NR	3

Chemical	Concentration	Max ˚C	Notes
Thionyl chloride	100	NR	
Tobias acid (2-naphthylamine - 1- Sulphonic)	all	-	0,9
Toluene	100	NR	
Toluene diisocyanate	100	NR	
Toluene sulphonic acid	50	95	0
Toluene sulphonic acid	Sat'd	95	0
Toluidine (1,2-)	100	-	
Toluidine (1,3-)	100	-	
Toluidine (1,4-)	100	-	
Transformer oils	100	95	
Tri-(2-chloroethyl) phosphate	all	25	
Tributyl phosphate	100	60	
Tributylamine -N	100	50	
Tributylamine -N	all	50	
Trichloroacetaldehyde	100	NR	
Trichloroacetic acid	50	95	0
Trichlorobenzene	100	-	
Trichloroethane (-1,1,1)	100	NR	
Trichloroethane (-1,1,2)	100	NR	
Trichloroethene	100	NR	
Trichloromonofluormethane	100	25	
Trichlorophenol	100	NR	
Tricresyl phosphate	100	60	
Tridecylbenzene sulphonate	all	95	0
Triethanol amine	100	50	
Triethanol amine lauryl sulphate	all	45	9
Triethyl amine	40	50	
Triethyl amine	100	50	
Triethylene glycol	100	95	
Triethylene glycol	all	95	0
Trimethyl amine	100	25	
Trimethyl amine	all	25	
Trimethyl amine hydrochloride	Sat'd	55	
Trimethylene chlorobromide	100	NR	
Triphenyl phosphate	100	60	
Triphenyl phosphite	100	60	
Tripotassium phosphate (K5O10P3)	0.03	80	
Tripotassium phosphate (K5O10P3)	all	50	2
Tripropyl amine -N	100	50	

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Tripropyl amine -N	all	50	
Tripropylene glycol	100	95	
Tripropylene glycol	all	95	0
Trisodium phosphate (Na5O10P3)	0.03	80	
Trisodium phosphate (Na5O10P3)	all	50	2
Tritolyl phosphate	all	60	
Tung oil	100	95	
Turpentine	all	65	
Tween surfactant	all	65	
Uranium extraction		80	9
Urea	all	60	
Urea formaldehyde resins PH<7	all	25	
Urea:ammonium nitrate	35 : 44	-	
Varsol solvent	100	45	9,27
Vegetable oils	100	95	
Versene (NaEDTA)	all	50	26
Vinegar	all	95	0
Vinyl acetate	100	NR	
Vinyl chloride	100	NR	
Vinyl toluene	100	NR	
Water, Condensate	100	80	
Water, Deionized	100	80	
Water, Demineralized	100	80	
Water, Distilled	100	80	
Water, Sea	100	95	0
Water, Tap	100	95	0
Whisky		45	9
White liquor (pulp mill)		-	9
Wine		45	9
Xylene	100	NR	
Xylene (m-)	100	NR	
Xylene (o-)	100	NR	
Xylene (p-)	100	NR	
Xylidine (= dimethyl aniline)	100	NR	

Chemical	Concentration	Max ˚C	Notes
Zeolite	all	95	0,9
Zinc chlorate	all	95	0
Zinc chloride	all	95	0
Zinc cyanide	all	80	
Zinc nitrate	all	95	0
Zinc sulphate	all	95	0
Zinc sulphite	all	95	

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