

Spill Containment - Chemical Resistance Charts

Max °C - maximum temperature allowed.

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Chemical	Concentration	Max °C	Notes	Chemical	Concentration	Max °C	Notes
Acetaldehyde	100	NR		Alkylphenolpolyglycoether	all	25	
Acetic acid	10	95	0	Alkylphenolpolyglycoether sulphates			
Acetic acid	15	95	0	and Salts	all	60	
Acetic acid	25	95	0	Alkylsulfonate	all	60	
Acetic acid	40	80		Alkylsulfonic acid and sulfonates	all	60	
Acetic acid	50	70		allyl alcohol	100	NR	
Acetic acid	75	60		allyl chloride	all	NR	9
Acetic acid	80	45		Alpha methylstyrene	100	NR	
Acetic acid	85	45		Alum	all	95	0
Acetic acid	100	NR		Aluminium chloride	all	95	0
Acetic acid glacial	100	NR		Aluminium chlorohydrate	all	95	0
Acetic anhydride	100	NR	9	Aluminium chlorhydroxide	50	95	0
Acetone	5	80		Aluminium citrate	all	95	0
Acetone	10	80		Aluminium fluoride	all	45	2
Acetone	100	NR		Aluminium hydroxide	all	70	2
Acetone:				Aluminium nitrate	all	95	0
Methylethyl ketone:	2:2:2	-		Aluminium potassium sulphate	all	95	0
Methylisobutyl ketone				Aluminium sodium sulphate	all	95	0
Acetonitrile	all	NR		Aluminium sulphate	all	95	0
Acetyl chloride	100	NR		Aluminium sulphate/Acetic acid	all	80	9
Acrylamide	50	-		Amino acids	all	40	
Acrylic acid	25	45		Aminosulphonic acid	all	80	
Acrylic acid	100	NR		Ammonia (dry gas)	100	40	
Acrylic Latex	all	80		Ammonia (wet gas)	100	40	
Acrylonitrile	100	NR		Ammonia, liquified gas	100	NR	
Adipic acid	all	80		Ammonium acetate	all	45	
Adiponitrile	all	50		Ammonium benzoate	all	80	
Alfol 810	100	60		Ammonium bicarbonate	4	70	
Alkylaminopolyglycoether	all	25		Ammonium bicarbonate	Sat'd	70	
Alkylaryl ammonium salt	all	80		Ammonium bifluoride	all	40	2
Alkylaryl sulfonate salts	all	60		Ammonium bisulphide	all	25	
Alkylaryl sulfonic acid	all	60		Ammonium bisulphite black Liquor		80	
Alkylbenzene ammonium salt	all	80		Ammonium bromate	all	95	0
Alkylbenzene sulfonic acid	all	60		Ammonium bromide	all	95	0
Alkylnaphthalene sulfonic acid	all	60		Ammonium carbonate	all	65	2
Alkylnaphtholpolyglycoether	all	60		Ammonium chloride	all	95	0
Alkylol sulphates and salts	all	60		Ammonium citrate	all	70	
Alkylolakoxylate	all	25		Ammonium fluoride	all	50	2
Alkylol etherphosphate	all	60		Ammonium hydroxide (aq. ammonia)	1	80	2
Alkylol ethersulphate	all	60		Ammonium hydroxide (aq. ammonia)	5	70	2

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

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Bromine gas	dry	40		Cadmium chloride	all	90	0
Bromine gas	wet	40		Calcium bisulphite	all	80	
Bromine water	5	80		Calcium bromide	all	95	0
Butanediol (1,2-)	all	80		Calcium carbonate	Sat'd	95	0
Butanediol (1,3-)	all	80		Calcium chlorate	all	95	0
Butanediol (1,4-)	all	80		Calcium chloride	all	95	0
Butanediol (2,3-)	all	80		Calcium hydroxide	Sat'd	80	
Butanol (n-) (= butyl alcohol, n-)	100	40		Calcium hypochlorite, pH > 11, active chlorine < 18%		50	2,3,4,5,9
Butanol (n-) (= butyl alcohol, n-)	5	80		Calcium nitrate	all	95	0
Butanol (sec-) (= butyl alcohol, sec-)	100	40		Calcium sulphate	all	95	0
Butanol (sec-) (= butyl alcohol, sec-)	5	80		Calcium sulphite	all	80	
Butanol (tert-) (= butyl alcohol, tert-)	20	80		Cane sugar liquor & sweet water	all	80	
Butanol (tert-) (= butyl alcohol, tert-)	100	40		Capric acid	100	90	
Butoxydiethylene glycol	100	NR		Caprolactam	50	40	
Butoxyethanol (2-)	100	35		Caprylic acid	100	90	
Butoxyethoxyethanol (2,2-)	100	NR		Caprylic acid	all	90	0
Butyl acetate (n-)	100	NR		Carbolic acid	1	45	
Butyl acetate (sec-)	100	NR		Carbolic acid	2	NR	
Butyl acetate (tert-)	100	NR		Carbolic acid	5	NR	
Butyl acrylate	100	NR		Carbolic acid	> 5	NR	
Butyl amine (n-)	40	25		Carbon dioxide gas, dry		150	0
Butyl amine (n-)	100	NR		Carbon disulphide	100	NR	
Butyl amine (sec-)	40	25		Carbon monoxide gas, dry		150	0
Butyl amine (sec-)	100	NR		Carbon tetrachloride	100	45	
Butyl amine (tert-)	40	25		Carbonic acid	all	80	
Butyl amine (tert-)	100	NR		CARBOWAX, polyethylene glycol	100	80	
Butyl benzoate	100	NR		Carboxy ethylcellulose	10	70	
Butyl benzyl phthalate	100	90		Carboxy methylcellulose	all	70	
Butyl carbitol	100	NR		Cashew nut oil	100	80	
Butyl cellosolve	100	40		Castor oil	100	95	
Butyl diglycol	100	NR		Cereclor 42, S-52	all	70	
Butyl stearate (5% in mineral spirits)		-		Chloric acid	conc	25	
Butylaldehyde	100	NR		Chlorinated lime	all	60	
Butylene glycol	100	80		Chlorinated waxes	100	70	
Butylene glycol	all	80		Chlorinated waxes	all	70	
Butylene oxide	100	NR		Chlorine	liquid	NR	
Butyric acid	50	65		Chlorine dioxide, dry	all	50	5,9
Butyric acid	85	45		Chlorine dioxide, wet	Sat'd	50	5,9
Butyric acid	100	NR		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	
Demineralsed 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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Dibromopropanol	all	NR		Diethylenetriamine	100	NR	
Dibutyl ether	100	NR		Diisobutyl ketone	100	NR	
Dibutyl phthalate	100	80		Diisobutyl phthalate	100	80	
Dibutyl phthalate	all	80	0	Diisobutylene	100	NR	
Dibutyl sebacate	all	60		Diisopropanol amine	100	40	
Dibutylamine (n-)	100	25		Diisopropyl amine	all	25	
Dichloroacetic acid	80	NR		Dimethyl acetamide	100	NR	
Dichlorobenzene	100	NR		Dimethyl amine (DMA)	100	25	
Dichlorobenzene (m-)	100	NR		Dimethyl formamide (DMF)	100	NR	
Dichlorobenzene (o-)	100	NR		Dimethyl phthalate	100	65	
Dichlorobenzene (p-)	100	NR		Dimethyl sulphate	100	NR	
Dichloroethane (-1,1)	100	NR		Dimethyl sulphide	100	NR	
Dichloroethane (-1,2) (=dichloroethylene)	100	NR		Dimethyl sulphoxide	20	NR	
Dichloroethene	100	NR		Dimethyl sulphoxide	100	NR	
Dichloromethane	0,2	25		Dimethyl aniline (=xylidine)	100	NR	
Dichloromethane	100	NR		Dimethyl morpholine (2,6-)	100	NR	
Dichloropropane (-1,1)	100	NR		Dinonyl phthalate	100	60	
Dichloropropane (-1,2)	100	NR		Diocetyl phthalate	100	60	
Dichloropropene	100	NR		Diocylsulfosuccinate sodium salt	all	80	
Dichloropropionic acid	100	NR		Dioxane (1,4-)	all	NR	
Dichlorotoluene	100	NR		Diphenyl ether	100	50	
Diesel fuel	100	80	9	Dipiperazine sulphate solution	all	40	
Diesel fuel, no aromatics, no methanol	100	80		Dipotassium hydrogenphosphate	0,5	95	0
Diethanol amine	100	45		Dipotassium hydrogenphosphate	10	95	0
Diethyl amine	40	25		Dipropylamine (n-)	50	25	
Diethyl amine	100	NR		Dipropylene glycol	100	95	
Diethyl aniline N,N	100	NR		Dipropylene glycol	all	95	0
Diethyl benzene	100	NR		Disodium hydrogenphosphate	0,5	95	0
Diethyl carbonate	100	NR		Disodium hydrogenphosphate	10	95	0
Diethyl ether	100	NR		Dispersions, copolymer vinyl acetate/ vinyl versatate	50	25	
Diethyl formamide	100	NR		Divinyl benzene	100	NR	
Diethyl ketone	100	NR		Dodecanol	100	80	
Diethyl maleate	100	NR		Dodecene	100	80	
Diethyl maleate	all	NR		Dodecyl benzene sulphonic acid	all	95	
Diethyl phtalate	100	60		Dodecyl guanidine hydrochloride	all	80	
Diethyl sulphate	100	NR		Dowanol DB glycoether	all	25	
Diethylene glycol	100	95		Embalming fluid	100	45	
Diethylene glycol	all	95	0	Epichlorohydrin	100	NR	
Diethylene glycol dimethyl ether	100	NR		Epoxidised Vegetable oils	100	90	
Diethylene glycol monobutyl ether	100	NR					

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Epoxidized Castor oil	100	90		Hydrochloric acid			
Epoxidized Soybean oil	100	90		Ferric chloride: Hydrochloric acid	29:18	80	0,8
Epoxy Resins - Epikote 828	100	45	24	Ferric nitrate	all	95	0
Esters, Fatty acid	100	95		Ferric sulphate	all	95	0
Ethanol (= ethyl alcohol)	1	60		Ferric sulphate : Sulphuric acid	Sat'd:10	80	
Ethanol (= ethyl alcohol)	10	60		Ferrous chloride (II)	all	95	0
Ethanol (= ethyl alcohol)	20	50		Ferrous chloride: Ferric chloride	20:5:0	95	0
Ethanol (= ethyl alcohol)	50	40		Ferrous chloride-Hydrochloric acid	all	50	8,9
Ethanol (= ethyl alcohol)	96	25		Ferrous nitrate	all	95	0
Ethanol (= ethyl alcohol)	100	NR		Ferrous sulphate	all	95	0
Ethanol amine	100	NR		Ferrous sulphate : Magnesium oxide		95	0
Ethyl acetate	100	NR		Fertiliser Uran		60	23
Ethyl acrylate	100	NR		Fertilizer, 8-8-8		60	22
Ethyl amine	40	25		Fertilizer, Ureaammonium Cont'D 35,4%		60	
Ethyl benzene	100	NR		UREA			
Ethyl bromide	100	NR		Flue gas, dry	100	150	0
Ethyl chloride	100	NR		Flue gas, wet	100	95	0
Ethyl chlorohydrin	100	45		Fluoboric acid	10	80	0,2,9
Ethyl ether	100	NR		Fluoboric acid	15	70	2,9
Ethyl sulphate	100	NR		Fluoboric acid	25	60	2
Ethylene chloride	100	NR		Fluoboric acid	Sat'd	50	2,9
Ethylene chlorohydrin	100	45		Fluoride salts: Hydrochloric acid	30:10	50	2
Ethylene diaminetetraacetic acid, EDTA	all	45		Fluorine gas		-	2,9
Ethylene dibromide	100	NR		Fluorocarbon 11	100	45	
Ethylene dichloride	100	NR		Fluosilicic acid	10	65	2,9
Ethylene glycol	100	95		Fluosilicic acid	25	40	2,9
Ethylene glycol	all	95	0	Fluosilicic acid	35	25	2,9
Ethylene glycol monobutyl ether	100	NR		Fluosilicic acid	fumes	80	2,9
Ethylene oxide	100	NR		Formaldehyde	50	50	
Ethylhexanol (2-)	all	80		Formamide	100	NR	
Ethylhexylacrylate (-2)	100	25		Formic acid	10	65	
Eucalyptus oil	100	90		Formic acid	30	65	
				Formic acid	50	45	
Fatty acid esters	100	95		Formic acid	85	25	
Fatty acids (C12 or higher)	all	95		Formic acid	98	NR	
Ferric acetate	all	80	0	FREON 11	100	25	
Ferric chloride (III)	all	95	0	Fuel oil, no Aromatics, no Methanol	100	95	
Ferric chloride : Ferric sulphate	all	95	0	Furfural	5	70	
Ferric chloride: Ferrous chloride	5.0:20	95	0	Furfural	20	45	
Ferric chloride: Ferrous chloride	48:0.2:0.2	95	0,8	Furfural	100	NR	

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Furfuryl alcohol	100	NR		Hydrobromic acid	48	70	8,9
				Hydrobromic acid	62	40	8,9
Gallic acid	all	60		Hydrochloric acid	1	80	0,7,8
Gasoline fuel	100	-	9	Hydrochloric acid	5	80	0,7,8
Gluconic acid	50	45		Hydrochloric acid	10	80	0,7,8
Glucose	all	95	0	Hydrochloric acid	15	80	0,7,8
Glutaraldehyde	50	25		Hydrochloric acid	18	80	0,7,8
Glutaric acid	all	60		Hydrochloric acid	20	70	0,7,8
Glycerine	100	95		Hydrochloric acid	21	70	0,7,8
Glycerine triacetate	all	-		Hydrochloric acid	25	55	7,8,9
Glycolic acid	35	60		Hydrochloric acid	26	40	7,8,9
Glycolic acid	70	25		Hydrochloric acid	32	40	7,8,9
Glyme		NR		Hydrochloric acid	37	40	7,8,9
Glyoxal	40	45		Hydrochloric acid	fumes	95	0,7,8,9
Green liquor (pulp mill)		95	0,9	Hydrochloric acid and organics		NR	6,8,9
Gypsum slurry; phosphoric acid; fluorine water		45		Hydrochloric, sulphuric and acetic acid		55	6,8,9
				Hydrocyanic acid	10	95	0,9
				Hydrofluoric acid	1	50	2,9
Heavy aromatic naphta (HAN)	100	45		Hydrofluoric acid	10	50	2,9
Heptane	100	90		Hydrofluoric acid	20	40	2,9
Heptene	100	90		Hydrofluoric acid	30	NR	
Hexachlorocyclopentadiene	100	40		Hydrofluosilicic acid	10	65	2,9
Hexachloroethane	100	NR		Hydrofluosilicic acid	25	40	2,9
Hexamethylenetetramine	60	45		Hydrofluosilicic acid	35	25	2,9
Hexane	100	60		Hydrofluosilicic acid	fumes	80	2,9
Hexanediol	100	80		Hydrogen bromide gas, dry	all	-	9
Hexanediol	all	80		Hydrogen bromide gas, wet	all	80	0,9
Hexene	100	60		Hydrogen chloride gas, dry	all	80	0,8,9
Hexene (2-)	100	60		Hydrogen chloride gas, wet	all	80	0,8,9
Hexene (2-trans-)	100	60		Hydrogen fluoride gas, dry	all	-	9
Hexene (3-trans-)	100	60		Hydrogen fluoride gas, wet	all	-	9
Hydraulic Fluid, alkaline	100	25		Hydrogen peroxide	5	65	4
Hydraulic Fluid, neutral	100	90		Hydrogen peroxide	30	40	4
Hydrazine	50	NR		Hydrogen sulphide, gas	5	150	0
Hydrazine	100	NR		Hydrogen sulphide, gas	100	95	0
Hydrazine hydrate	16	30		Hydroxyacetic acid	35	60	
Hydrobromic acid	1	80	0,8	Hydroxyacetic acid	70	25	
Hydrobromic acid	10	80	0,8	Hydroxybenzenesulfonic acid	all	60	
Hydrobromic acid	18	80	0,8	Hypochlorous acid	10	25	9
Hydrobromic acid	26	80	8,9	Hypochlorous acid	20	25	9

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Hypochlorous acid	50	25	9	Lauryl mercaptan	all	90	
Hypophosphorous acid	50	-	9	Lead acetate	all	80	
Iodine	cristals	65		Lead chloride	all	95	0
Iodine	vapour	-		Lead nitrate	all	95	0
Isoamyl alcohol (=isobutylcarbinol)	100	50		Levulinic acid	all	95	
Isobutanol (=isobutyl alcohol)	100	40		Lignin sulphate, PH 3-7	all	80	
Isobutanol (=isobutyl alcohol)	5	80		Ligninsulfonate sodium salt	all	80	
Isodecanol	100	80		Linoleic acid	100	95	
Isononyl alcohol	100	80		Linolenic acid	100	95	
Isooctyl adipate	100	80		Linseed oil	100	95	
isooctyl alcohol	100	80		Liquid sugar	all	80	
Isopropanol (=isopropyl alcohol)	20	60		Lithium bromide	all	95	0
Isopropanol (=isopropyl alcohol)	100	25		Lithium carbonate	1	95	0,2
Isopropyl myristate	100	95		Lithium carbonate	Sat'd	80	0,2
Isopropyl palmitate	100	95	0	Lithium chloride	all	95	0
Isopropyl palmitate	all	95	0	Lithium hydroxide	Sat'd	40	2
Isopropyl sulphate	all	25		Lithium hypochlorite, pH > 11, active chlorine < 18%		50	2,3,4,5,9
Isopropylamine	40	25		Lithium sulphate	all	95	0
Isopropylamine	100	NR		Magnesium bicarbonate	all	80	
Itaconic acid	40	60		Magnesium bisulphite	all	80	
Itaconic acid	Sat'd	50		Magnesium carbonate	Sat'd	95	0,2
Jet fuel	100	-	9	Magnesium chloride	all	95	0
Jojoba oil	100	80		Magnesium fluosilicate	37.5	60	2
Kerosene	100	-	9	Magnesium hydroxide	Sat'd	95	0,2
Lactic acid	10	80		Magnesium nitrate	all	95	0
Lactic acid	80	25		Magnesium silicofluoride	37.5	60	2
Latex, alkaline	all	25		Magnesium sulphate	all	95	0
Latex, paint emulsion	all	45		Maleic acid	all	95	0
Latex, PVA emulsion	all	45		Maleic anhydride	100	95	
Latex, rubber emulsion	all	45		Manganese sulphate/Sulphuric acid 90:10		95	0
Lauric acid	100	95		Manganese(II)chloride	all	95	0
Lauroyl alcohol	all	90		Manganese(II)nitrate	all	95	0
Lauroyl chloride	all	50		Manganous sulphate	all	95	0
Lauryl alcohol	all	90		Maple syrup	all	80	
Lauryl chloride	all	50		Melamine resins	all	25	
Lauryl ether sulphate	all	60		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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Octanoic acid (see caprylic acid)	all	90		Phenol (Carbolic acid)	> 5	NR	
Octanol (1-) (=octyl alcohol, 1-)	100	80		Phenolformaldehyde resin	all	40	
Octanol (2-) (=octyl alcohol, 2-)	100	80		Phenolsulphonic acid	all	-	
Octene	100	90		Phosphoric acid	50	95	0
Octylamine (2-)	100	45		Phosphoric acid	80	95	0,28
Octylamine (n-)	100	45		Phosphoric acid	95	95	0,28
Octylamine (tert-)	100	45		Phosphoric acid	105	95	0,28
Oil, sour and sweet crude	100	95		Phosphoric acid	115	95	0,28
Oils (Grease, Lube, Vegetable)	100	90		Phosphoric acid	85	95	0,28
Oleic acid	100	95		Phosphorous acid	70	35	
Oleum (fuming sulphuric acid)		NR		Phosphorous trichloride	100	NR	
Olive oil	100	95		Phossy water		NR	9
Orange oil	100	80		Phthalates/Phthalate esters	all	60	
Oxalic acid	20	95	0	Phthalic acid	100	95	
Oxalic acid	Sat'd.	95	0	Phthalic acid	all	95	0
Ozone gas	all	NR	9	Phthalic anhydride	100	95	
				Phthalic anhydride	Sat'd.	95	0
Palm oil	100	95		Picric acid	10	25	
Palmitic acid	100	95		Pine oil	100	90	
Palmitoyl chloride	all	50		Pine oil disinfectant	100	50	
Paper mill effluent		-	9	Piperazine dihydrochloride	all	45	
Paraffin wax	100	90		Plating solution, Cadmium		60	2,13
Peanut oil	100	95		Plating solution, Chrome		NR	1,9,14
Pentachloroethane	100	NR		Plating solution, Copper		70	
Pentane	100	35		Plating solution, Gold		95	0,15
Pentanedioic acid	all	60		Plating solution, Lead		95	0,2,16
Pentanol (=amyl alcohol)	100	50		Plating solution, Nickel		95	0,17,18
Pentasodium triphosphate (Na5O10P3)	all	95	0	Plating solution, Platinum		80	0,9
Pentene	100	30		Plating solution, Silver		95	0,2,19
Peracetic acid:Acetic acid:Hydrogen peroxide:water	23:20:15 42:	25	3,4,9	Plating solution, Tin Fluoborate		80	0,2,20
Perchloric acid	10	-	9	Plating solution, Zinc Fluoborate		95	0,2,9,21
Perchloric acid	20	-	9	Pluronic surfactant 25R-2	all	60	
Perchloric acid	30	-	9	Polyacrylamide	all	-	
Perchloric acid	70	-		Polyester resins	100	NR	
Perchloroethylene	100	40		Polyethylene glycol	100	95	
Peroxide bleach	diluted	95	9	Polyethylene glycol	all	95	0
Phenol (Carbolic acid)	1	45		Polymeric phosphoric acid	115	95	0,28
Phenol (Carbolic acid)	2	NR		Polyols	100	80	
Phenol (Carbolic acid)	5	NR		Polyols	all	80	
				Polyphosphoric acid	115	95	0,28

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Chemical	Concentration	Max °C	Notes	Chemical	Concentration	Max °C	Notes
Polyvinyl acetate emulsion	all	45		Propionic acid	40	60	
Polyvinyl alcohol	all	80		Propionic acid	100	NR	
Potassium aluminium sulphate	all	95	0	Propylamine (n-)	40	25	
Potassium amyl xanthate	5	65	9	Propylamine (n-)	100	NR	
Potassium bicarbonate	all	80		Propylene glycol	100	95	
Potassium bromate	all	95	0	Propylene glycol	all	95	0
Potassium bromide	all	95	0	Pyridine	100	NR	
Potassium carbonate	10	80					
Potassium carbonate	Sat'd	65		Quarternary ammonium salts	25	65	
Potassium chlorate	all	95	0				
Potassium chloride	all	95	0	Rayon spin bath		60	
Potassium chromate	all	95		Ref. Fuel C (Isooctane/Toluene)	100	-	
Potassium cyanide	all	65	2	Renex detergents	all	65	
Potassium dichromate	all	95		Rosin sizes		80	
Potassium dihydrogenphosphate	all	95	0				
Potassium ferricyanide	all	95	0	Salicylaldehyde	100	-	
Potassium ferrocyanide	all	95	0	Salicylic acid	all	65	
Potassium fluoride	all	60	2	Salt brine (see sodium chloride)	all	95	0
Potassium gold cyanide	12	-	35	Sea water		95	0
Potassium hydroxide	1	40	2,3,9	Selenious acid	all	80	
Potassium hydroxide	10	40	2,3,9	Sewage municipal	all	-	9
Potassium hydroxide	25	40	2,3,9	Silicone oils or greases	100	90	
Potassium hydroxide	Sat'd	40	2,3,9	Silver cyanide	all	95	0
Potassium iodide	all	65		Silver nitrate	all	95	0
Potassium nitrate	all	95	0	Soaps	all	60	
Potassium nitrite	all	95	0	Sodium acetate	all	95	0
Potassium orthophosphate, tribasic (K3O4P.12H2O)	0.03	80		Sodium alkylaryl sulphonate	all	80	
Potassium orthophosphate, tribasic (K3O4P.12H2O)	all	50	2	Sodium aluminate	all	65	
Potassium oxalate	all	95		Sodium benzoate	all	80	
Potassium permanganate	all	95	0	Sodium bicarbonate	all	80	
Potassium persulphate	all	95	0	Sodium bicarbonate:Sodium carbonate 15:2		65	2
Potassium pyrophosphate	60	95	0	Sodium bifluoride	all	40	2
Potassium silicofluoride	all	-	2	Sodium bisulphate	all	95	0
Potassium sulphate	all	95	0	Sodium bisulphite	all	95	0
Propanol (1-) (= propyl alcohol, 1-)	20	60		Sodium borate	all	95	0
Propanol (1-) (= propyl alcohol, 1-)	100	25		Sodium borohydride:Sodium hydroxide 12:48		45	2,9
Propanol (2-) (= propyl alcohol, 2-)	20	60		Sodium bromate	all	95	0
Propanol (2-) (= propyl alcohol, 2-)	100	25		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	Chemical	Concentration	Max °C	Notes
Sodium carbonate	10	80	2	Sodium polyacrylate	all	65	
Sodium carbonate	Sat'd	65	2	Sodium silicate (water glass)	all	65	2
Sodium chlorate	all	95	0	Sodium sulphate	all	95	0
Sodium chloride	all	95	0	Sodium sulphhydrate	all	80	
Sodium chlorite	10	65		Sodium sulphide	all	95	0
Sodium chlorite	50	40		Sodium sulphite	all	95	
Sodium chromate	50	95	0	Sodium tartrate	all	90	
Sodium cyanide	5	95	0,2	Sodium tetraborate	all	95	0
Sodium cyanide	10	65	2	Sodium thiocyanate	all	80	0
Sodium cyanide	15	65	2	Sodium thiosulphate	all	80	0
Sodium dichromate	all	95		Sodium tridecylsulphate	all	80	0
Sodium dihydrogenphosphate	all	95	0	Sodium triphosphate	all	95	0
Sodium diphosphate	all	95	0	(Na ₅ O ₁₀ P ₃)			
Sodium dodecylbenzene sulphonate	all	80	80	Sodium tripolyphosphate	all	95	0
Sodium ethyl xanthate	5	65	9	(Na ₅ O ₁₀ P ₃)			
Sodium ferric cyanide	all	95	0	Sodium xylene sulphonate	all	95	0
Sodium ferro cyanide	all	95	0	Sorbitol solutions	all	65	0
Sodium fluoride	all	80	2	Soy sauce		45	9
Sodium fluorosilicate	all	50	2	Soya oil		100	95
Sodium hexametaphosphate	all	80		Soybean oil		100	95
Sodium hydrosulphide	all	80		Span surfactant	all	65	9,25
Sodium hydrosulphite	all	40		Spearmint oil	100	90	
Sodium hydroxide	1	40	2,3,9	Stannic chloride	all	95	0
Sodium hydroxide	5	40	2,3,9	Stannous chloride	all	95	0
Sodium hydroxide	25	40	2,3,9	Stannous sulphate	all	95	0
Sodium hydroxide	50	40	2,3,9	Starch 4 < pH < 9	all	95	0
Sodium hydroxide-Chlorine gas		-	9	Stearic acid	100	95	
Sodium hypochlorite, pH > 11, active chlorine < 18%		50	2,3,4,5,9	Stearic acid	all	95	
Sodium lauryl sulphate	all	70		Styrene	100	NR	
Sodium monophosphate	0.5	95	0	Succinic acid	all	80	
Sodium monophosphate	10	95	0	Succinonitril (aqueous)	all	80	
Sodium nitrate	all	95	0	Sucrose	all	90	0
Sodium nitrite	all	95	0	Sulphamic acid	10	95	0
Sodium orthophosphate, tribasic (Na ₃ O ₄ P.12H ₂ O)	0.03	80		Sulphamic acid	25	65	
Sodium orthophosphate, tribasic (Na ₃ O ₄ P.12H ₂ O)	all	50	2	Sulphanilic acid	all	80	0
Sodium oxalate	all	95		Sulphated detergents	all	80	
Sodium persulphate	all	95	9	Sulphite/Sulphate liquors (pulp mill)		95	9
				Sulphonated detergents	all	80	
				Sulphonyl chloride, aromatic	all	NR	
				Sulphur	100	-	0

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Sulphur chloride	all	NR		Thionyl chloride	100	NR	
Sulphur dichloride	all	NR		Tobias acid (2-naphthylamine - 1-	all	-	0,9
Sulphur dioxide gas, dry	all	80		Sulphonic)			
Sulphur dioxide gas, wet	all	80		Toluene	100	NR	
Sulphur trioxide gas	-	9		Toluene diisocyanate	100	NR	
Sulphuric acid	1	90	0,8	Toluene sulphonic acid	50	95	0
Sulphuric acid	5	90	0,8	Toluene sulphonic acid	Sat'd	95	0
Sulphuric acid	10	90	0,8	Toluidine (1,2-)	100	-	
Sulphuric acid	25	90	0,8	Toluidine (1,3-)	100	-	
Sulphuric acid	50	90	0,8	Toluidine (1,4-)	100	-	
Sulphuric acid	60	75	8,9	Transformer oils	100	95	
Sulphuric acid	70	75	8,9	Tri-(2-chloroethyl) phosphate	all	25	
Sulphuric acid	75	40	8,9	Tributyl phosphate	100	60	
Sulphuric acid	80	-	8,9	Tributylamine -N	100	50	
Sulphuric acid	93	NR		Tributylamine -N	all	50	
Sulphuric acid (= oleum)	Fuming	NR		Trichloroacetaldehyde	100	NR	
Sulphuric acid : Ferrous sulphate	10:Sat'd	95	0	Trichloroacetic acid	50	95	0
Sulphuric acid : Phosphoric acid	10:20	80		Trichlorobenzene	100	-	
Sulphurous acid	10	45	9	Trichloroethane (-1,1,1)	100	NR	
Sulphuryl chloride	100	NR		Trichloroethane (-1,1,2)	100	NR	
Superphosphoric acid (105% H3PO4)	105	95	0, 28	Trichloroethene	100	NR	
				Trichloromonofluormethane	100	25	
Tall oil	100	65		Trichlorophenol	100	NR	
Tall oil	all	65	0	Tricresyl phosphate	100	60	
Tannic acid	all	95		Tridecylbenzene sulphonate	all	95	0
Tartaric acid	all	95	0	Triethanol amine	100	50	
Tetrachloroethane (-1,1,1,2)	100	NR		Triethanol amine lauryl sulphate	all	45	9
Tetrachloroethane (-1,1,2,2)	100	NR		Triethyl amine	40	50	
Tetrachloroethene (perchloroethene)	100	40		Triethyl amine	100	50	
Tetrachloromethane	100	45		Triethylene glycol	100	95	
Tetrachloropentane	100	NR		Triethylene glycol	all	95	0
Tetrachloropyridine	100	NR		Trimethyl amine	100	25	
Tetrapotassium pyrophosphate	5	95	0	Trimethyl amine	all	25	
Tetrapotassium pyrophosphate	60	50		Trimethyl amine hydrochloride	Sat'd	55	
Tetrasodium ethylenediaminetetraacetate	all	50		Trimethylene chlorobromide	100	NR	
Tetrasodium pyrophosphate	5	95	0	Triphenyl phosphate	100	60	
Tetrasodium pyrophosphate	60	50		Triphenyl phosphite	100	60	
Thioglycolic acid	10	50	3	Tripotassium phosphate (K5O10P3)	0.03	80	
Thioglycolic acid	80	NR	3	Tripotassium phosphate (K5O10P3)	all	50	2
Thioglycolic acid	100	NR	3	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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