



Chemical Compatibility Guide for: FTI Pumps

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Chemical Resistance Chart

Chemical	Formula	Est. Sp. Grav @ 100% Conc. % Concentration	Hastelloy C 316 SS	Hastelloy C	PVC	Teflon	Polyethylene	Polypropylene	PVDF	High Purity Ceramic Carbon	Viton	EPDM		
Acetamide	CH ₃ CONH ₂	-	-	A	-	-	-	150	73	100	-	A	200	200
Acetate Solv. (Pure)*	-	-	-	A	-	D	350	-	D	-	-	-	D	D
Acetic Acid, (Glacial)	CH ₃ COOH	100	1.00	A	A	110	350	D	180	180	A	A	D	73
Acetic Acid 20%*	CH ₃ COOH	20	-	A	A	140	350	D	140	200	-	-	180	200
Acetic Acid 80%*	CH ₃ COOH	80	-	A	A	D	350	D	73	140	-	-	180	100
Acetic Acid*	CH ₃ COOH	50	-	A	A	100	350	D	100	200	-	-	180	200
Acetic Anhydride	(CH ₃ CO) ₂ O	-	5.00	-	-	D	-	D	90	73	A	A	D	200
Acetone*	CH ₃ COCH ₃	-	-	A	A	D	-	-	-	-	-	-	-	-
Acetyl Chloride	C ₆ H ₅ COCH ₃	-	3.00	A	-	-	-	D	100	-	-	-	-	D
Acetylene	(CH ₃ CO) ₂ O	-	-	A	B	100	-	-	200	-	A	A	-	-
Acrylonitrile	H ₂ C=CHCN	-	-	-	B	D	350	140	100	73	A	A	250	200
Alcohol, Amyl*	C ₅ H ₁₁ OH	-	-	-	A	100	400	140	250	170	-	-	190	200
Alcohol, Benzyl*	C ₆ H ₅ CH ₂ OH	-	-	-	A	D	-	-	180	140	-	-	140	D
Alcohol, Butyl*	-	-	-	-	A	140	250	140	240	180	-	-	100	180
Alcohol, Diacetone*	-	-	-	-	A	D	350	-	73	73	-	-	D	70
Alcohol, Ethyl*	C ₂ H ₅ OH	-	-	-	A	140	300	140	750	180	A	A	170	170
Alcohol, Hexyl*	-	-	-	-	A	100	-	-	-	70	A	A	160	D
Alcohol, Isobutyl*	(CH ₂) ₂ CHCH ₂ OH	-	-	-	A	-	300	-	250	-	A	A	140	140
Alcohol, Isopropyl*	(CH ₂) ₂ CHOH	-	-	-	-	140	300	140	230	150	A	A	200	140
Alcohol, Methyl*	CH ₃ OH	-	-	-	A	140	300	140	230	150	A	A	100	100
Alcohol, Octyl*	-	-	-	-	-	-	-	-	-	-	A	A	-	-
Alcohol, Propyl*	CH ₃ CH ₂ CH ₂ OH	-	-	A	A	A	A	-	B	A	A	A	A	A
Aluminum Chloride 20%	ALCL ₃	20	-	C	A	A	-	B	-	A	A	A	A	A
Aluminum Chloride	ALCL ₃	-	-	-	-	140	210	140	140	170	A	A	180	210
Aluminum Fluoride	ALF ₃	-	-	-	-	140	-	160	280	200	-	-	-	-
Aluminum Hydroxide	AL(OH) ₃	-	-	A	-	140	250	-	250	180	-	-	180	150
Alum Potassium Sulfate (ALUM) 10%	-	10	-	-	B	A	A	A	-	-	A	A	A	-
Alum Potassium Sulfate (ALUM) 100%	-	-	-	-	-	140	400	140	280	180	-	-	-	200
Aluminum Sulfate	AL ₂ (SO ₄) ₃	10	-	-	A	140	250	-	280	180	A	A	-	210
Amines	-	15	-	-	-	-	-	-	-	-	-	-	-	-
Ammonia 10%	NH ₃	10	-	A	A	A	A	-	D	A	-	A	A	-
Ammonia Anhydrous	-	-	-	-	-	D	400	160	250	180	C	A	-	-
Ammonia, Liquids*	NH ₃	-	-	A	B	A	A	D	-	A	A	A	D	A
Ammonia, Nitrate	NH ₄ NO ₃	-	-	A	-	B	-	-	-	A	A	A	-	-
Ammonium Bifluoride	NH ₄ HF ₂	-	-	-	-	140	300	-	250	180	-	-	140	-
Ammonium Carbonate	NH ₄ HCO ₃	-	-	-	-	140	250	140	250	200	-	-	200	200
Ammonium Casenite	-	-	-	-	-	-	140	-	-	-	-	-	-	-
Ammonium Chloride	NH ₄ CL	-	-	-	-	140	250	140	250	180	A	A	220	-
Ammonium Hydroxide*	NH ₄ OH	-	-	-	A	140	400	150	250	180	A	A	0	200
Ammonium Nitrate	NH ₄ NO ₃	-	-	-	-	140	250	140	160	180	A	A	180	-
Ammonium Oxalate	(NH ₄) ₂ C ₂ O ₄	-	-	-	-	-	140	-	-	A	-	-	-	-
Ammonium Persulfate	S ₂ O ₈	-	-	A	-	140	-	140	200	180	-	-	76	-

* Indicates that pumping or mixing these chemicals with a drum pump can cause sparks of static electricity. This condition can cause explosion and/or fire. A stainless steel tube with M6X (Air) or X series (Electric) motor is recommended. A static protection kit must also be used. A properly grounded centrifugal metal pump may be used with these solutions. Do not use a plastic pump for flammable solutions. Always take operating conditions and solutions into account when selecting a pump and motor.

A - Acceptable **B** - Acceptable - Minor effect **C** - Questionable - Some effect **D** - Not recommended
 A number in the block indicates that product is acceptable to the temperature, which is in degrees F.

Chemical Resistance Chart

Chemical	Formula	Est. Sp. Grav @ 100% Conc.	% Concentration	Hastelloy C 316 SS	Hastelloy C	PVC	Teflon	Polyethylene	Polypropylene	PVDF	High Purity Ceramic	Carbon	Viton	EPDM
Ammonium Phosphate, Dibasic	(NH ₄) ₂ HPO ₄	-	-	-	-	140	300	140	250	180	A	A	180	210
Ammonium Phosphate, Monobasic	NH ₄ H ₂ PO ₄	-	-	-	A	140	-	140	250	180	A	A	190	210
Ammonium Phosphate, Tribasic	-	-	-	-	A	140	-	140	250	180	A	A	190	210
Ammonium Sulfate	(NH ₄) ₂ SO ₄	-	1.80	-	-	140	350	140	250	180	A	A	180	210
Ammonium Thio-Sulfate	(NH ₄) ₂ S ₂ O ₃	-	0.86	-	-	140	-	140	250	-	A	A	200	180
Amyl-Acetate*	CH ₃ COOC ₅ H ₁₁	-	0.86	A	A	D	400	D	180	D	A	A	D	70
Amyl Alcohol	C ₅ H ₁₁ OH	-	-	-	-	-	-	-	-	-	-	-	-	-
Amyl Chloride	-	-	1.02	B	-	D	-	D	240	D	A	A	68	D
Aniline	C ₆ H ₅ NH ₂	-	1.02	-	-	D	400	D	200	100	A	A	140	70
Anti-Freeze	CH ₂ OHCH ₂ OH	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony Trichloride	SbCl ₃	-	-	-	-	-	-	-	-	-	-	-	-	-
Aqua Regia (80%, HCl, 20%, HNO)	CLHNO ₃	-	-	-	C	D	380	D	200	D	-	D	140	D
Arochlor 1248	-	-	-	-	-	-	300	D	-	D	A	-	-	-
Aromatic Hydrocarbons	-	-	-	-	-	D	-	-	40	68	A	-	180	D
Arsenic Acid	H ₃ AsO ₄	80	-	A	A	100	-	140	210	140	A	A	210	150
Asphalt	-	-	-	-	-	D	-	-	250	140	-	A	180	D
Barium Carbonate	BaCO ₃	-	4.30	A	-	140	400	140	250	180	-	-	300	250
Barium Chloride	BaCl ₂	-	3.10	-	-	140	400	140	250	180	-	-	300	250
Barium Cyanide	Ba(CN) ₂	-	-	-	-	-	-	140	-	-	-	-	-	-
Barium Hydroxide	Ba(OH) ₂	-	2.20	-	-	140	400	140	250	180	A	A	200	200
Barium Nitrate	Ba(NO ₃) ₂	-	-	-	-	80	400	140	250	140	A	A	300	200
Barium Sulfate	BaSO ₄	-	4.30	A	A	140	400	140	250	180	A	B	200	200
Barium Sulfide	BaSO ₄	-	-	A	-	140	400	150	280	200	A	A	250	140
Beer	-	-	-	A	A	140	400	-	250	180	A	A	200	200
Beet Sugar Liquids	-	-	-	-	-	-	-	-	-	-	A	A	-	-
Benzaldehyde	C ₆ H ₅ CHO	-	5.00	A	A	D	400	D	120	73	A	A	-	-
Benzene*	C ₆ H ₆	-	0.90	A	A	D	350	D	150	100	A	A	140	D
Benzoic Acid	C ₆ H ₅ COOH	-	1.30	B	A	180	400	150	250	250	-	-	180	-
Benzol (see Benzene)	C ₆ H ₆	-	-	-	-	-	-	-	-	-	-	-	-	-
Bleach (see Sodium Hypochlorite)	NaOCl	-	-	-	-	-	-	-	-	-	-	-	-	-
Borax (Sodium Borate)	Na ₂ B ₄ O ₇	-	1.40	A	-	140	400	140	250	180	A	A	180	-
Boric Acid	H ₃ BO ₃	-	-	-	A	140	400	140	250	180	A	A	200	210
Brewery Slop	-	-	-	-	-	-	-	-	-	-	A	A	-	-
Bromine (Wet)	-	-	3.10	-	-	-	-	D	-	-	D	-	D	-
Butadiene (Gas)	H ₂ C:CHHC:CH ₂	-	0.80	A	B	140	-	D	250	D	-	-	190	D
Butanol (see Alcohol, Butyl)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butter	-	-	-	A	-	-	-	-	-	-	-	-	-	-
Buttermilk	-	-	-	A	-	-	-	-	-	-	-	-	-	-
Butylene*	-	-	-	-	-	-	250	-	250	D	A	-	D	D
Butyl Acetate*	-	-	0.90	-	-	-	-	D	-	-	-	-	D	-
Butyric Acid	-	-	-	A	A	D	-	D	220	180	D	-	D	D
Calcium Bisulfate	-	-	-	A	-	A	A	-	-	-	-	-	A	-
Calcium Bisulfide	Ca(HS) ₂	-	-	-	A	120	400	140	210	200	A	A	D	100
Calcium Bisulfite	Ca(HSO ₃) ₂	-	-	-	-	100	210	-	210	200	-	A	D	100

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Calcium Carbonate	CaCO ₃	-	2.70	A	A	140	300	140	250	200	A	A	140	100
Calcium Chlorate	Ca(ClO ₃) ₂	-	2.70	A	B	140	400	140	250	200	A	-	140	73
Calcium Chloride	CaCl ₂	-	2.10	B	A	140	350	140	250	200	A	A	200	150
Calcium Hydroxide	Ca(OH) ₂	-	2.30	-	-	140	400	140	250	210	A	A	70	140
Calcium Hypochlorite	Ca(OCL) ₂	-	2.30	-	B	140	380	140	200	180	A	A	100	D
Calcium Sulfate	CaSO ₄	-	2.90	A	B	140	400	140	210	180	A	A	200	210
Calgon	-	-	-	-	-	-	-	140	-	-	A	A	-	-
Cane Juice	-	-	-	A	A	140	350	140	250	140	A	A	200	250
Carbolic Acid (See Phenol)	C ₆ H ₅ OH	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Bisulfide*	CS ₂	-	-	A	A	-	-	-	-	-	-	-	-	-
Carbon Dioxide (Wet)	CO ₂	-	-	A	A	140	350	140	250	180	-	-	210	170
Carbon Disulfide*	CS ₂	-	-	A	A	D	400	D	68	D	A	A	180	-
Carbon Monoxide	CO	-	-	A	-	140	400	140	250	180	A	A	180	-
Carbon Tetrachloride	CCl ₄	-	1.60	C	A	D	350	D	140	D	A	A	190	D
Carbonated Water	-	-	-	A	B	A	-	-	-	A	A	A	A	A
Carbonic Acid	H ₂ CO ₃	-	-	A	A	140	350	140	250	210	A	A	200	210
Catsup	-	-	-	A	A	-	-	-	-	-	-	-	-	-
Caustic Soda (Sodium Hydroxide)	NaOH	-	2.13	-	-	140	250	D	100	200	-	-	D	200
Chloroacetic Acid	CH ₂ CLCOOH	D	-	C	-	-	300	D	-	-	-	-	D	-
Chloric Acid	HClO ₃	20	-	D	A	140	140	-	-	140	-	-	D	A
Chlorinated Glue	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorine, Anhydrous Liquid	-	-	-	D	A	D	A	D	-	D	A	D	A	B
Chlorine (Dry)	CL ₂	-	-	-	-	D	350	D	250	D	A	A	140	D
Chlorine Water > 3,500 PPM	-	-	-	A	-	140	400	-	250	-	C	A	180	73
Chlorobenzene (Mono)*	C ₆ H ₅ CL	-	-	A	A	D	A	D	A	D	A	A	A	D
Chlorosulfonic Acid	CLSO ₂ OH	6	1.77	-	-	D	180	D	D	D	-	-	D	D
Chlorox (Bleach)	NaOCL:H ₂ O	5.5	-	B	-	140	350	140	140	140	-	-	140	100
Chocolate Syrup	-	-	-	A	B	-	-	-	-	100	-	-	100	-
Chromic Acid 5%	H ₂ CrO ₄	5	2.80	A	-	140	400	140	250	140	D	C	180	73
Chromic Acid 10%	H ₂ CrO ₄	10	-	-	A	140	400	140	250	140	D	-	180	73
Chromic Acid 30%	H ₂ CrO ₄	30	-	-	A	100	400	100	200	D	D	-	300	-
Chromic Acid 50%	H ₂ CrO ₄	50	-	B	B	D	350	100	180	-	D	-	300	-
Citric Acid	-	-	1.54	A	-	140	200	140	240	180	-	-	200	200
Citric Oils	-	-	-	-	-	-	-	-	-	-	A	A	-	-
Coffee	-	-	-	A	-	-	-	-	-	-	A	A	200	140
Copper ChlorideA	CuCL ₃	-	3.40	C	A	140	350	-	250	180	-	A	200	210
Copper CyanideA	Cu(CN) ₂	-	-	A	A	140	300	140	200	180	A	A	190	200
Copper Florobate	-	-	-	-	-	100	-	-	-	-	-	-	-	-
Copper Nitrate	Cu(NO ₃) ₂	-	2.30	-	-	140	350	140	210	180	-	A	200	210
Copper SulfateA (5% Solution)	CuSO ₄	5	-	-	-	140	350	140	210	180	A	A	210	200
Copper Sulfate	CuSO ₄	-	2.30	-	-	140	350	140	210	180	-	A	210	200
Cream	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cresols	-	-	1.05	-	-	D	400	D	180	D	A	A	100	D

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Cresylic Acid	-	-	-	-	-	D	-	-	D	D	A	A	200	D
Cyclohexane*	-	-	-	A	-	D	400	D	210	D	A	A	180	D
Cyanic Acid	HN=C=O	-	-	A	-	-	-	-	-	-	-	-	D	-
Detergents	-	-	-	A	-	140	400	D	250	180	A	A	210	200
Dichlorethane	CLCH ₂ CH ₂ CL	-	-	A	-	D	400	D	210	D	C	A	150	-
Diesel Fuel*	-	-	-	-	-	72	400	-	250	100	A	A	190	D
Diethylamine	(C ₂ H ₅) ₂ NH	-	-	A	-	D	400	-	100	100	-	-	D	120
Diethylene Glycol	-	-	-	A	-	140	350	-	280	180	A	A	200	-
Diphenyl Oxide	(C ₆ H ₅) ₂ O	-	-	A	-	-	-	-	-	-	A	A	100	D
Dyes	-	-	-	A	-	-	-	-	-	-	-	-	A	-
Epsom Salts (Magnesium Sulfate)	MgSO ₄	-	-	-	-	140	300	140	280	180	140	-	200	180
Ethane	C ₂ H ₆	-	-	-	-	73	350	-	280	-	-	-	-	D
Ethanolamine	-	-	1.02	-	-	D	100	-	D	D	-	-	-	100
Ether*	-	-	-	A	-	D	350	-	100	D	-	-	D	D ^{Ethyl}
Acetate*	CH ₃ COOL ₂ H ₅	-	-	A	-	D	350	D	100	100	A	A	D	70
Ethyl Chloride*	C ₂ H ₅ CL	-	0.92	-	-	D	350	D	250	D	A	A	140	70
Ethyl Sulfate	(C ₂ H ₅) ₂ SO ₄	-	-	-	-	-	-	-	-	-	-	-	D	-
Ethylene Chloride*	CLCH ₂ CH ₂ CL	-	-	A	B	D	A	-	C	D	A	A	-	C
Ethylene Dichloride	CLCH ₂ CH ₂ CL	-	1.25	-	-	D	-	D	200	D	C	A	150	D
Ethylene Glycol	CH ₂ OHCH ₂ OH	-	1.12	-	-	140	400	140	200	180	-	-	300	180
Fatty Acids	-	-	-	-	-	140	250	D	250	140	-	-	180	D
Ferric Chloride	FeCL ₃	-	2.90	D	C	140	400	140	250	180	A	A	210	200
Ferric Nitrate	FeNO ₃	50	1.70	A	-	140	400	140	250	180	-	-	180	180
Ferric Sulfate	Fe(SO ₄) ₃	-	3.10	-	-	140	400	140	250	180	C	A	190	210
Ferrous Chloride	FeCL ₃	-	3.20	D	A	140	400	140	250	180	A	A	200	200
Ferrous Sulfate	FeSO ₄	-	1.90	A	A	140	400	140	280	180	A	A	200	180
Fluboric Acid	HBFL ₄	-	1.80	-	-	140	400	140	200	140	-	-	200	160
Fluorine Gas (Wet)	F ₂	-	-	-	-	D	250	D	80	D	D	-	D	-
Fluorine (Liquid)	F ₂	-	-	-	A	D	D	D	-	D	D	-	100	D
Fluosilicic Acid	H ₂ SIF ₆	25	1.11	-	-	140	250	D	140	150	-	-	D	140
Formaldehyde 40%	HCHO	40	-	A	A	B	A	-	B	A	-	A	D	-
Formaldehyde	HCHO	50	-	-	-	140	250	D	140	73	A	-	D	140
Formic Acid	HCOOH	25	-	-	-	100	300	D	210	100	-	-	100	200
Freon 11	CCL ₃ F	-	1.22	A	-	72	250	-	250	73	-	-	180	D
Freon 12 (Wet)A	CL ₂ CF ₂	-	-	-	-	-	250	-	-	-	-	-	-	-
Freon 22	HCCIF ₂	-	-	A	A	D	D	-	150	73	-	-	D	D
Freon 113	CCL ₃ CCF ₃	-	-	A	-	-	250	-	250	-	-	-	70	D
Freon T. F.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fruit Juice	-	-	-	-	-	140	400	140	250	180	-	-	210	-
Fuel Oils*	-	-	-	A	A	-	400	D	250	D	-	-	80	D
Furan Resin	-	-	-	-	-	-	-	-	D	-	-	-	D	D
Furfural	-	-	0.94	-	-	D	400	D	80	D	-	-	D	-
Gallic Acid	-	-	-	-	-	140	400	D	100	73	-	-	190	73
Gasoline*	-	-	-	A	A	C	A	D	A	C	A	A	A	C

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Chemical Resistance Chart

Chemical	Formula	Est. Sp. Grav @ 100% Conc. % Concentration	Hastelloy C 316 SS	PVC	Teflon	Polyethylene	Polypropylene	PVDF	High Purity Ceramic Carbon	Viton	EPDM			
Gelatin	-	-	-	A	-	140	300	-	250	180	-	-	180	200
Glucose	C ₆ H ₁₂ O ₆	-	-	A	-	140	400	140	280	180	-	-	300	250
Glue P.V.A.	-	-	-	-	-	140	250	-	-	120	-	-	250	100
Glycerine (see Glycerol)	C ₃ H ₅ (OH) ₃	-	-	-	-	-	-	-	-	-	-	-	-	-
Glycolic Acid (see Hydroxyacetic acid)	-	-	-	A	B	-	-	-	-	-	-	-	-	-
Gold Monocyanide	Au(CN) ₄	-	-	A	-	-	-	-	-	A	A	A	A	-
Grape Juice	-	-	-	-	-	140	250	-	-	-	-	-	210	140
Grease	-	-	-	-	-	-	-	70	-	-	-	-	200	D
Heptane*	CH ₃ (CH ₂) ₅ CH ₃	-	-	-	-	100	300	-	250	73	-	-	340	D
Hexane*	CH ₃ (CH ₂) ₄ CH ₃	-	0.66	-	-	D	300	D	250	73	-	-	340	D
Honey	-	-	-	-	-	140	400	140	300	180	-	-	250	D
Hydraulic Oils (Petroleum) ₁	-	-	-	-	-	-	300	-	-	D	-	-	250	D
Hydraulic Oils (Synthetic) ₁	-	-	-	-	-	-	300	-	-	D	-	-	250	D
Hydrazine	H ₂ NNH ₂	-	1.00	-	-	D	250	-	200	D	-	-	D	70
Hydrobromic Acid 20%	HBr	20	-	D	-	140	250	140	250	180	-	B	190	140
Hydrobromic Acid	HBr	48	1.50	-	-	140	250	140	250	180	-	-	190	140
Hydrochloric Acid (Dry Gas)	HCL	-	-	-	-	-	-	-	-	-	-	-	-	-
Hydrochloric Acid 20%	HCL	20	1.10	-	-	140	400	140	250	160	-	-	190	200
Hydrochloric Acid 37%	HCL	37	1.19	D	-	140	400	140	210	160	A	A	200	100
Hydrochloric Acid 100%	HCL	100	-	D	C	A	A	A	-	-	A	A	C	-
Hydrocyanic Acid (Prussic Acid)	HCN	-	-	A	-	140	400	140	250	140	A	A	190	200
Hydrocyanic Acid (Gas 10%)	HCN	10	-	-	-	140	400	140	250	140	-	-	190	200
Hydrofluoric Acid 20%	HF	20	-	-	A	100	300	70	250	150	B	A	150	100
Hydrofluoric Acid 75%	HF	75	0.99	-	-	D	250	-	200	100	D	B	100	D
Hydrofluoric Acid 100%	HF	100	-	D	B	C	A	-	-	-	D	B	-	-
Hydrofluosilicic Acid 20%	H ₂ SiF ₆	20	-	-	-	73	300	140	250	180	-	-	200	140
Hydrofluosilicic Acid	H ₂ SIF ₆	-	-	-	-	73	300	140	250	180	-	-	200	140
Hydrogen Peroxide 10%	H ₂ O ₂	10	-	-	-	140	250	140	250	73	A	A	180	100
Hydrogen Peroxide 30%	H ₂ O ₂	30	-	-	-	140	250	140	250	D	-	-	200	100
Hydrogen Peroxide	H ₂ O ₂	-	-	-	-	D	400	-	68	D	-	-	100	D
Hydrogen Sulfide (Aqueous Solution)	H ₂ S	-	1.19	A	B	140	400	140	200	150	A	A	140	100
Hydroxyacetic Acid (Glycolic Acid)	CH ₂ OHCOOH	-	1.27	-	-	140	400	-	100	150	-	-	D	-
Ink	-	-	-	-	-	-	-	D	-	-	-	-	70	70
Iodine	I ₂	10	-	-	-	D	400	D	150	D	-	-	180	70
Iodine (In Alcohol)	-	-	-	B	A	D	A	-	-	B	-	-	A	-
Iodoform	-	-	-	A	-	-	A	-	-	-	-	-	A	-
Isotane	-	-	-	-	-	-	-	-	-	D	-	A	A	-
Isopropyl Acetate*	(CH ₃) ₂ CHOH	-	0.92	-	-	D	200	-	-	-	-	-	D	70
Isopropyl Ether*	CH ₃ CHCLCH ₃	-	0.72	-	-	D	140	-	130	D	-	-	D	D
Jet Fuel (JP3)*	-	-	-	-	-	-	200	-	-	-	-	-	190	D
Jet Fuel (JP4)*	-	-	-	-	-	140	400	-	250	D	-	-	300	D

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Jet Fuel (JP5)*	-	-	-	-	140	400	-	250	D	-	-	300	D	
Kerosene*	-	-	0.81	-	140	300	D	250	D	-	-	300	D	
Ketones	-	-	-	-	D	350	D	100	100	-	-	D	D	
Lacquers*	-	-	-	-	-	-	-	-	-	-	-	D	D	
Lacquer Thinners*	-	-	-	-	D	-	-	-	-	-	-	-	-	
Lactic Acid	-	-	1.20	A	100	400	D	140	180	-	-	210	70	
Lard	-	-	-	-	140	250	-	250	73	-	-	190	D	
Latex	-	-	-	-	-	-	-	-	-	-	-	70	70	
Lead Acetate	Pb(C ₂ H ₃ O ₂) ₂	-	-	B	B	140	400	140	250	180	-	D	210	
Lead Sulfamate	-	-	-	-	-	-	-	-	A	-	-	A	D	
Ligroin (Benzene)	-	-	-	-	D	250	-	200	D	-	-	100	D	
Lime	CaO	-	-	-	-	-	-	-	-	-	-	-	-	
Lubricants	-	-	-	-	-	-	-	-	-	A	A	-	-	
Magnesium Carbonate	MgCO ₃	-	3.00	-	-	140	400	140	210	180	-	210	170	
Magnesium Chloride	MgCl ₂	-	2.30	-	-	140	400	140	280	180	-	180	180	
Magnesium Hydroxide	Mg(OH) ₂	-	2.36	-	-	140	400	140	250	180	A	A	230	170
Magnesium Nitrate	Mg(NO ₃) ₂	-	2.03	-	-	140	400	140	250	180	-	A	230	140
Magnesium Oxide	MgO	-	3.60	-	-	-	-	-	-	-	A	-	140	
Magnesium Sulfate	MgSO ₄	-	2.60	-	-	140	400	140	250	180	A	A	200	180
Maleic Acid	-	-	1.59	-	-	140	400	70	250	180	A	A	200	70
Maleic Anhydride	-	-	0.93	-	-	-	-	-	-	A	A	-	D	
Malic Acid	-	-	1.60	B	B	140	400	-	250	180	-	-	230	180
Mash	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mayonnaise	-	-	-	-	-	400	-	-	-	-	-	-	-	
Melamine	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mercuric Chloride (Dilute Solution)	HgCl ₂	-	5.40	-	-	140	400	140	250	180	-	190	210	
Mercuric Cyanide	Hg(CN) ₂	-	4.00	-	-	140	400	140	250	180	-	70	70	
Mercury	Hg	-	13.6	A	A	140	400	140	250	150	-	200	70	
Methanol (See Alcohol Methyl)	CH ₃ OH	-	0.80	A	-	140	400	D	250	180	-	D	100	
Methyl Acetate	CH ₃ CO ₂ CH ₃	-	0.92	-	-	D	-	-	100	68	-	D	-	
Methyl Acrylate	-	-	-	-	-	300	-	100	-	-	-	D	70	
Methyl Alcohol*	CH ₃ OH	-	-	-	-	140	400	D	250	180	A	A	100	100
Methyl Bromide	CH ₃ Br	-	1.73	-	-	D	350	D	250	D	-	180	D	
Methyl Butyl Ketone	CH ₃ COC ₄ H ₉	-	0.83	-	-	D	400	-	100	D	A	A	D	70
Methyl Cellosolve	HOCH ₂ CH ₂ OCH ₃	-	-	-	-	D	400	-	250	73	-	D	70	
Methyl Dichloride	-	-	-	-	-	-	-	-	-	A	A	A	D	
Methyl Ethyl Ketone*	CH ₃ COC ₂ H ₅	-	0.82	B	-	D	-	D	D	73	A	A	D	70
Methyl Isobutyl Ketone*	-	-	0.80	-	-	D	400	-	D	D	A	A	D	-
Methyl Isopropyl Ketone*	CH ₃ COCH(CH ₃) ₂	-	0.82	-	-	D	400	-	D	D	A	A	D	-
Methyl Methacrylate	-	-	0.94	-	-	D	300	-	100	D	A	A	D	D
Methylamine	CH ₃ NH ₂	-	-	-	-	D	400	-	D	D	-	100	70	
Methylene Chloride	CH ₂ Cl ₂	-	1.34	-	-	D	350	D	100	D	A	A	D	D
Milk	-	-	-	-	-	140	400	140	280	180	A	A	190	190
Molasses	-	-	-	-	-	140	400	140	250	180	A	A	300	100

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Mustard	-	-	-	-	140	400	-	250	150	-	-	150	150	
Naphtha*	-	-	-	-	140	400	D	210	100	-	-	150	D	
Naphthalene*	C ₁₀ H ₈	-	1.15	-	D	400	D	200	D	-	-	170	D	
Nickel Chloride	NiCl ₂	-	3.50	-	140	400	140	250	180	-	-	210	210	
Nickel Sulfate	NiSO ₄	-	3.70	-	A	140	400	140	250	180	-	180	210	
Nitric Acid (10% Solution)	HNO ₃	10	1.06	-	-	140	400	100	250	180	C	B	190	D
Nitric Acid (20% Solution)	HNO ₃	20	1.12	-	-	140	400	140	210	140	D	C	190	D
Nitric Acid (50% Solution)	HNO ₃	50	1.32	-	-	D	350	D	120	73	D	-	100	D
Nitric Acid (Concentrated Solution)	HNO ₃	-	1.50	-	-	D	300	D	73	D	D	-	D	D
Nitrobenzene	C ₆ H ₅ NO ₂	-	1.20	-	-	D	400	D	140	73	A	-	70	D
Oils, Aniline	-	-	-	-	A	D	250	-	120	100	A	A	D	140
Oils, Anise	-	-	-	-	-	-	300	-	-	-	A	A	-	-
Oils, Bay	-	-	-	-	-	-	300	-	-	-	A	A	140	-
Oils, Bone	-	-	-	-	-	-	300	-	-	-	A	A	140	-
Oils, Castor	-	-	-	-	-	-	300	-	-	-	A	A	140	-
Oils, Cinnamon	-	-	-	-	-	-	300	-	-	-	A	A	D	-
Oils, Citric	-	-	-	-	-	-	300	-	-	72	A	A	140	-
Oils, Clove	-	-	-	-	-	-	300	-	-	72	A	A	-	-
Oils, Coconut	-	-	-	-	-	140	350	-	250	150	A	A	140	D
Oils, Cod Liver	-	-	-	-	-	-	300	-	-	72	A	A	140	108
Oils, Corn	-	-	-	-	-	68	250	250	-	100	A	A	140	D
Oils, Cotton Seed	-	-	-	-	-	140	300	250	-	250	A	A	140	D
Oils, Cresote	-	-	-	-	-	D	300	-	-	D	A	A	73	D
Oils, Diesel Fuel	-	-	-	-	-	72	300	250	-	73	A	A	140	D
Oils, Fuel	-	-	-	-	-	140	300	250	-	73	A	A	140	D
Oils, Ginger	-	-	-	A	-	-	-	-	-	-	A	A	A	-
Oils, Hydraulic (See Hydraulic)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oils, Lemon	-	-	-	A	-	-	-	-	-	D	A	A	A	-
Oils, Linseed	-	-	-	-	-	140	300	250	-	180	A	A	220	D
Oils, Mineral	-	-	-	-	-	140	300	250	-	180	A	A	150	-
Oils, Olive	-	-	-	-	-	140	300	250	-	180	A	A	150	-
Oils, Orange	-	-	-	A	-	-	A	-	-	A	A	A	A	-
Oils, Palm	-	-	-	A	-	A	-	-	-	-	A	A	A	-
Oils, Peanut	-	-	-	A	-	A	-	-	-	D	A	A	A	-
Oils, Peppermint	-	-	-	A	-	-	-	-	-	D	A	A	A	-
Oils, Pine	-	-	-	-	-	140	300	-	-	-	A	A	70	-
Oils, Rape Seed	-	-	-	A	-	A	-	-	-	-	A	A	A	-
Oils, Rosin	-	-	-	A	-	-	-	-	-	A	A	A	A	-
Oils, Sesame Seed	-	-	-	A	-	A	-	-	-	-	A	A	A	-
Oils, Silicone	-	-	-	A	-	-	350	-	250	150	A	A	190	140
Oils, Soybean	-	-	-	A	-	A	-	-	-	A	A	A	A	-
Oils, Sperm	-	-	-	A	-	A	-	-	-	-	A	A	A	-
Oils, Tanning	-	-	-	A	-	-	-	-	-	-	A	A	A	-
Oils, Turbine	-	-	-	A	-	A	-	-	-	-	A	A	A	-

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Oleic Acid	-	-	0.90	A	-	140	250	-	250	73	-	-	190	70
Oleum 25%	H ₂ SO ₄	25	-	-	A	D	A	-	B	-	-	A	A	D
Oleum	H ₂ SO ₄	100	-	-	-	D	200	D	D	D	D	D	73	D
Oxalic Acid (Cold)	-	-	1.70	A	-	73	400	140	150	150	-	-	180	150
Paraffin	-	70	-	A	-	120	400	D	-	120	-	-	250	D
Pentane	CH ₃ (CH ₂) ₃ CH ₃	-	-	-	-	-	400	-	-	-	-	-	100	D
Perchloroethylene	CL ₂ CCCL ₂	70	1.60	-	-	D	-	-	150	D	-	-	200	D
Petrolatum	-	-	-	-	-	140	300	-	-	120	-	-	100	D
Phenol 10%	C ₆ H ₅ OH	10	-	A	B	A	A	-	-	-	-	-	B	D
Phenol (Carbolic Acid)	C ₆ H ₅ OH	-	1.10	-	-	D	350	D	200	73	A	D	200	70
Phosphoric Acid	H ₃ PO ₄	-	1.80	-	-	140	400	140	140	180	-	-	200	100
Phosphoric Acid 10%	H ₃ PO ₄	10	1.05	-	-	140	400	140	140	180	-	-	200	100
Phosphoric Acid 20%	H ₃ PO ₄	20	1.11	-	-	140	400	140	140	180	-	-	200	70
Phosphoric Acid 40%	H ₃ PO ₄	40	1.25	-	-	140	300	140	250	180	-	-	200	70
Phosphoric Acid 80%	H ₃ PO ₄	80	1.63	-	-	140	350	70	250	180	-	-	200	70
Phosphoric Acid 85%	H ₃ PO ₄	85	1.68	-	-	140	350	70	200	180	-	-	200	70
Phosphoric Acid 100%	H ₃ PO ₄	100	1.80	-	-	-	350	-	-	-	-	-	100	70
Phosphoric Acid (Crude)	H ₃ PO ₄	-	1.83	-	-	-	350	-	-	-	-	-	100	70
Phosphoric Anhydride (Dry or Moist)	C ₆ H ₄ (CO) ₂ O	-	-	A	-	D	A	-	-	-	A	-	D	-
Phosphoric Anhydride (Molten)	P ₂ O ₅	-	-	A	-	D	A	D	-	-	-	-	D	-
Photographic (Developer)	-	-	-	-	-	140	350	D	250	150	A	A	190	-
Phthalic Anhydride	-	-	1.53	-	-	D	350	-	-	D	-	-	-	-
Picric Acid	C ₆ H ₂ (NO ₂) ₃ OH	-	1.77	-	A	D	400	D	70	D	-	-	190	140
Plating sol, Antimony Plating 130Å° F	-	-	-	-	-	140	-	140	240	250	-	-	140	-
Plating sol, Arsenic Plating 110Å° F	-	-	-	-	-	140	300	140	240	150	-	-	100	-
Plating, Brass - Regular Brass Bath 100Å° F	-	-	-	-	-	140	300	140	240	180	-	D	150	70
Plating, Brass - High Speed Brass Bath 110Å° F	-	-	-	A	A	A	A	-	-	A	-	C	A	-
Plating, Bronze - Copper-Cadmium Bronze Bath R.T.	-	-	-	A	A	A	A	-	-	A	-	C	A	-
Plating, Bronze - Copper - Tin Bronze Bath 160Å° F	-	-	-	A	A	D	A	-	-	A	-	D	A	-
Plating, Bronze - Copper - Zinc Bronze Bath 100Å° F	-	-	-	A	A	A	A	-	-	A	-	C	A	-
Plating, Cadmium - Cyanide Bath 90Å° F	-	-	-	-	-	140	250	140	240	D	-	-	180	70
Plating, Cadmium - Fluoborate Bath 100Å° F	-	-	-	A	-	A	A	-	-	A	-	D	A	-
Plating, Chromium - Chromic -	-	-	-	C	A	A	A	-	-	A	-	A	C	-

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Sulfuric Bath 130Å° F			C	A	A	A	-	-	A	-	B	C	
Plating, Chromium - Fluosilicate Bath 95Å° F	-	-	-	C	A	A	A	-	-	A	-	B	C
Plating, Chromium - Fluoride Bath 130Å° F	-	-	-	D	A	A	A	-	-	A	-	B	C
Plating, Chromium - Black Chrome Bath 115Å° F	-	-	-	C	A	A	A	-	-	A	-	A	C
Plating, Chromium - Barrel Chrome Bath 95Å° F	-	-	-	D	A	A	A	-	-	A	-	A	C
Plating, Copper (Cyanide) - Copper Strike Bath 120Å° F	-	-	-	-	A	-	A	-	-	-	-	C	B
Plating, Copper (Cyanide) - Rochelle Salt Bath 150Å° F	-	-	-	A	A	D	A	-	-	A	-	D	A
Plating, Copper (Cyanide) - High Speed Bath 180Å° F	-	-	-	A	A	D	A	-	-	A	-	D	A
Plating, Copper (Acid) - Copper Sulfate Bath R.T.	-	-	-	D	A	A	A	-	-	A	-	D	A
Plating, Copper (Acid) - Copper Fluoborate Bath 120Å° F	-	-	-	D	A	A	A	-	-	A	-	D	A
Plating, Copper (Misc.) - Copper Pyrophosphate 140Å° F	-	-	-	A	A	A	A	-	-	A	-	B	A
Plating, Copper (Misc.) - Copper (Electroless) 140Å° F	-	-	-	-	-	A	A	-	-	A	-	D	A
Plating, Gold - Cyanide 150Å° F	-	-	-	A	A	D	A	-	-	A	-	B	A
Plating, Gold - Neutral 75Å° F	-	-	-	C	A	A	A	-	-	A	-	A	A
Plating, Gold - Acid 75Å° F	-	-	-	C	A	A	A	-	-	A	-	A	A
Plating, Indium - Indium Sulfamate Plating R.T.	-	-	-	C	A	A	A	-	-	A	-	A	A
Plating, Iron - Ferrous Chloride Bath 190Å° F	-	-	-	D	D	D	A	-	-	C	-	A	A
Plating, Iron - Ferrous Sulfate Bath 150Å° F	-	-	-	C	A	D	A	-	-	A	-	A	A
Plating, Iron - Ferrous Am. Sulfate Bath 150Å° F	-	-	-	C	A	D	A	-	-	A	-	A	A
Plating, Iron - Sulfate -Chloride Bath 160Å° F	-	-	-	D	D	D	A	-	-	A	-	A	A
Plating, Iron - Fluoborate Bath 145Å° F	-	-	-	D	B	D	A	-	-	A	-	D	A
Plating, Iron - Sulfamate 140Å° F	-	-	-	D	B	A	A	-	-	A	-	A	A
Plating, Nickel -Watts Type 115 -160Å° F	-	-	-	C	A	D	A	-	-	A	-	A	A
Plating, Nickel - High Chloride 130 -160Å° F	-	-	-	C	A	D	A	-	-	A	-	A	A
Plating, Nickel - Fluoborate	-	-	-	C	A	D	A	-	-	A	-	D	A

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100 -170A° F												
Plating, Nickel - Sulfamate 100 - 140A° F	-	-	-	C	A	A	A	-	-	A	-	A
Plating, Nickel - Electroless 200A° F	-	-	-	-	-	D	A	-	-	D	-	A
Plating, Rhodium - Rhodium Plating 120A° F	-	-	-	D	D	A	A	-	-	A	-	A
Plating, Silver - Silver Plating 80-120A° F	-	-	-	A	A	A	A	-	-	A	-	B
Plating, Tin Fluoborate - 100A° F	-	-	-	C	A	A	A	-	-	A	-	D
Plating, Tin - Lead - 100A° F	-	-	-	C	A	A	A	-	-	A	-	D
Plating, Zinc - Acid Chloride 140A° F	-	-	-	D	D	A	A	-	-	A	-	A
Plating, Zinc - Acid Sulfate Bath 150A° F	-	-	-	C	A	D	A	-	-	A	-	A
Plating, Zinc - Acid Fluoborate Bath R.T.	-	-	-	-	-	A	A	-	-	A	-	D
Plating, Zinc - Alkaline Cyanide Bath R.T.	-	-	-	-	A	A	A	-	-	A	-	D
Potash	K ₂ CO ₃	-	-	-	-	140	400	250	180	-	200	-
Potassium Bicarbonate	KHCO ₃	-	2.20	-	-	140	400	-	250	180	A	A
Potassium Bromide 30%	KBr	30	2.70	-	-	140	300	-	250	180	-	-
Potassium Carbonate	-	-	2.40	-	-	140	300	-	250	180	-	-
Potassium Chlorate	KClO ₃	30	2.30	A	-	140	300	-	250	180	-	-
Potassium Chloride	KCl	-	2.00	-	-	140	350	-	250	180	-	-
Potassium Chromate	K ₂ CrO ₄	-	2.70	-	-	140	-	-	250	180	A	D
Potassium Cyanide Solutions	KCN	-	1.50	-	-	140	350	-	250	100	C	A
Potassium Dichromate	K ₂ Cr ₂ O ₇	10	2.70	-	-	140	350	-	250	180	-	-
Potassium Ferrocyanide	K ₄ Fe(CN) ₆	-	1.90	-	-	140	350	-	250	140	-	-
Potassium Hydroxide 25%	KOH	25	-	-	-	140	350	-	D	180	-	-
Potassium Hydroxide 10%	KOH	10	-	-	-	140	350	-	D	100	-	-
Potassium Nitrate	KNO ₃	-	2.10	-	A	140	350	-	250	150	-	-
Potassium Permanganate	KMNO ₄	20	2.70	B	B	140	350	-	250	120	A	A
Potassium Sulfate	K ₂ SO ₄	-	2.70	-	-	140	400	-	250	180	A	A
Potassium Sulfide	K ₂ S	-	1.80	-	-	100	300	-	250	-	-	-
Propane (Liquified)	C ₃ H ₈	-	-	-	-	72	300	-	250	73	-	-
Propylene Glycol	CH ₃ CHOHCH ₂ OH	-	1.00	-	-	-	400	D	250	-	-	-
Pyridine	N(CH) ₄ CH	-	1.00	B	-	D	350	-	D	73	-	-
Pyrogalllic Acid	C ₆ H ₃ (OH) ₃	-	1.47	-	-	73	350	-	150	-	-	-
Rosins	-	-	-	-	-	-	350	-	-	-	-	-
Rum	-	-	-	-	-	100	-	-	-	100	-	-
Rust Inhibitors	-	-	-	-	-	-	-	-	-	-	-	-
Salad Dressing	-	-	-	-	-	-	-	-	-	A	A	-
Sea Water	-	-	-	-	A	140	400	140	250	180	A	A

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Shellac (Bleached)	-	-	-	-	-	-	-	-	-	-	-	-		
Shellac (Orange)	-	-	-	-	-	-	-	-	-	-	-	-		
Silicone	-	-	-	-	140	350	-	250	250	A	A	190	140	
Silver Bromide	AgBr	-	6.47	-	-	-	140	-	-	A	-	-	-	
Silver Nitrate	AgNO ₃	-	4.32	-	-	140	350	140	350	180	A	A	250	200
Soap Solutions	-	-	-	-	-	140	350	D	280	180	A	A	200	200
Soda Ash (See Sodium Carbonate)	Na ₂ CO ₃	-	1.55	-	-	140	400	-	280	180	-	-	250	140
Sodium Acetate	NaC ₂ H ₃ O ₂	-	1.50	-	A	140	350	140	250	180	A	A	D	170
Sodium Aluminate	Na ₂ Al ₂ O ₄	-	-	-	A	-	-	-	-	-	A	A	200	200
Sodium Bicarbonate	NaHCO ₃	-	2.20	-	A	140	400	140	280	180	A	A	300	210
Sodium Bisulfate	NaHSO ₄	-	2.40	-	-	140	250	140	280	180	A	A	250	200
Sodium Bisulfite	NaHSO ₃	-	1.50	-	A	140	350	140	250	180	-	-	250	200
Sodium Borate	Na ₂ B ₄ O ₇	-	1.70	-	A	100	300	140	250	200	A	A	180	140
Sodium Carbonate	Na ₂ CO ₃	-	1.55	-	A	140	350	-	250	180	B	A	200	140
Sodium Chlorate	NaClO ₃	-	2.50	-	-	100	350	-	250	180	A	A	180	140
Sodium Chloride	NaClO ₃	-	2.20	-	A	140	350	140	280	180	-	-	200	140
Sodium Chromate	Na ₂ CrO ₄	-	-	-	-	-	-	-	200	-	-	-	70	70
Sodium Cyanide	NaCN	-	-	-	-	140	350	-	250	180	-	-	200	140
Sodium Fluoride	NaF	-	2.60	-	-	140	350	-	250	180	-	-	140	140
Sodium Hydrosulfite	Na ₂ S ₂ O ₆	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium Hydroxide 20%	NaOH	20	1.22	-	-	140	350	D	73	180	-	-	100	210
Sodium Hydroxide (50% Solution)	NaOH	50	1.53	-	-	140	350	D	D	180	-	-	D	180
Sodium Hydroxide (80% Solution)	NaOH	80	-	D	B	A	A	C	-	A	C	D	B	-
Sodium Hypochlorite	NaOCL	15	-	-	-	140	300	-	100	D	D	-	180	D
Sodium Hypochlorite (bleach)	NaOCL	5	-	-	-	140	300	140	100	C	D	-	140	70
Sodium Hyposulfate	Na ₂ S ₂ O ₃	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium Metaphosphate	(NaPO ₃) _n	-	-	-	-	140	-	-	250	150	-	-	180	70
Sodium Metasilicate	Na ₂ SiO ₃	-	-	-	-	140	350	-	250	180	-	-	200	-
Sodium Nitrate	NaNO ₃	-	2.30	-	-	140	400	-	250	180	A	A	210	200
Sodium Nitrate	NaNO ₃	-	2.20	-	-	140	400	-	250	180	A	A	200	170
Sodium Perborate	NaBO ₃	-	-	-	-	140	350	-	250	180	-	-	180	70
Sodium Peroxide	Na ₂ O ₂	10	2.80	-	-	140	350	-	200	180	-	-	180	140
Sodium Polyphosphate	-	-	-	-	-	140	350	120	250	180	A	A	200	150
Sodium Silicate	Na ₂ OSiO ₂	-	-	-	-	140	350	-	250	180	A	A	200	200
Sodium Sulfate	Na ₂ SO ₄	-	2.70	-	-	140	400	140	280	150	A	A	200	140
Sodium Sulfide	Na ₂ S	50	1.40	-	-	140	350	140	250	180	A	A	200	140
Sodium Sulfite	Na ₂ SO ₃	-	2.60	A	B	140	350	140	250	180	A	A	200	140
Sodium Tetraborate	Na ₂ B ₄ O ₇	-	-	-	-	140	300	140	250	120	A	A	140	100
Sodium Thiosulphate ("Hypo")	Na ₂ S ₂ O ₃	-	1.70	-	-	140	350	140	250	180	A	A	200	-
Sorghum	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Soy Sauce	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Stannic Chloride	Na ₂ SnCl ₆	-	2.30	D	-	140	350	-	280	150	A	A	200	100
Stannic Fluoborate	-	-	-	-	-	-	-	-	-	-	A	A	-	-
Stannous Chloride	SnCl ₂	-	-	A	-	140	350	-	250	180	-	-	200	100
Starch	-	-	1.51	-	-	140	350	140	250	180	A	A	200	140
Stearic Acid	-	-	0.84	-	-	140	350	-	250	120	-	-	80	D
Stoddard Solvent	-	-	-	B	-	D	300	-	250	70	A	A	180	D
Styrene	C ₆ H ₅ CH:CH ₂	-	0.90	-	-	D	250	-	200	D	-	-	D	D
Sugar (Liquids)	-	-	-	-	-	140	350	-	270	180	-	-	200	140
Sulfate Liquors	-	-	-	-	-	140	200	-	150	150	-	-	80	70
Sulfur Chloride	S ₂ CL ₂	-	1.69	-	-	140	-	-	250	D	-	-	80	D
Sulfur Dioxide	SO ₂	-	-	-	-	100	300	70	250	180	-	-	140	140
Sulfur Dioxide (Dry)	SO ₂	-	-	-	-	140	300	70	250	180	-	-	100	70
Sulfur Trioxide (Dry)	SO ₃	-	-	-	-	D	-	-	D	D	-	-	150	D
Sulfuric Acid 10%	H ₂ SO ₄	10	1.07	D	A	140	350	140	250	180	A	A	200	140
Sulfuric Acid 30%	H ₂ SO ₄	30	1.21	D	A	140	350	140	250	150	-	-	200	140
Sulfuric Acid 50%	H ₂ SO ₄	50	1.40	D	A	140	350	140	200	150	-	-	200	140
Sulfuric Acid 60%	H ₂ SO ₄	60	1.51	D	A	140	350	D	200	140	-	-	200	140
Sulfuric Acid 70%	H ₂ SO ₄	70	1.62	D	B	140	350	D	200	140	-	-	200	140
Sulfuric Acid 80%	H ₂ SO ₄	80	1.73	C	B	140	350	D	200	D	-	-	200	70
Sulfuric Acid 90%	H ₂ SO ₄	90	1.82	C	B	73	350	D	200	D	-	-	200	D
Sulfuric Acid 95%	H ₂ SO ₄	95	1.83	B	B	D	350	D	180	D	-	-	200	D
Sulfuric Acid 98%	H ₂ SO ₄	98	1.84	B	B	D	350	D	140	D	-	-	200	D
Sulfuric Acid 100%	H ₂ SO ₄	100	-	B	B	D	-	D	D	D	-	-	100	D
Sulfurous Acid	H ₂ SO ₃	-	1.03	B	B	140	350	140	250	170	-	-	180	D
Sulfuryl Chloride	SO ₂ CL ₂	-	1.67	B	-	-	-	-	-	-	-	-	D	-
Syrup	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tallow	-	-	0.86	-	-	-	-	D	-	-	-	-	-	-
Tannic Acid	C ₇₆ H ₅₂ O ₄₆	-	-	B	-	140	250	D	250	180	-	-	100	70
Tanning Liquors	-	-	-	B	-	140	250	-	68	73	A	A	200	-
Tartaric Acid	-	-	1.80	-	-	140	250	140	250	140	-	-	180	D
Tetrachlorethane	CHCL ₂ CHCL ₂	-	-	-	-	D	350	-	250	D	-	-	70	D
Tetrahydrofurane*	-	-	-	D	-	350	D	D	D	-	-	-	D	D
Toluene, Toluol*	CH ₃ C ₆ H ₅	-	0.90	A	A	D	350	D	150	D	A	A	70	D
Tomato Juice	-	-	-	B	B	140	400	70	250	150	-	-	200	200
Trichlorethane	CHCL ₂ CH ₂ CL	-	-	-	-	D	350	-	-	D	-	-	-	D
Trichlorethylene	CHCL:CCL ₂	-	1.10	-	-	D	350	D	170	68	-	-	200	D
Trichloropropane	-	-	1.39	-	-	-	-	-	-	-	-	-	-	-
Tricresylphosphate	(CH ₃ C ₆ H ₄ O) ₃ PO	-	1.16	-	-	D	-	-	-	-	-	-	-	-
Triethylamine	(C ₂ H ₅) ₃ N	-	-	-	-	73	-	-	70	72	-	-	200	73
Turpentine*	C ₁₀ H ₁₆	-	0.90	A	B	D	300	D	250	D	-	-	108	D
Urine	-	-	-	-	-	140	350	140	250	180	-	-	180	140
Vegetable Juice	-	-	-	A	B	140	400	-	200	140	-	-	300	140
Vinegar	-	-	-	B	C	140	400	140	200	140	-	-	180	140
Varnish (Use Viton®)	-	-	-	-	-	-	250	-	250	-	-	-	68	D

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(D for Aromatic)														
Water, Acid, Mine	-	-	-	A	A	140	400	-	280	150	A	A	180	250
Water, Distilled, Lab Grade	H ₂ O	-	-	-	A	140	400	140	280	180	A	A	180	250
Water, Fresh	H ₂ O	-	-	-	A	140	400	140	280	180	A	A	180	250
Water, Salt	H ₂ O	-	-	-	A	140	400	140	280	180	A	A	180	250
Weed Killers	-	-	-	A	-	-	-	-	-	-	A	A	A	-
Whey	-	-	-	-	-	-	-	-	-	-	A	A	-	-
Whiskey and Wines	-	-	-	A	-	A	A	B	-	A	A	A	A	A
White Liquor (Pulp Mill)	-	-	-	B	-	140	350	-	250	180	A	A	180	-
White Water (Paper Mill)	H ₂ O	-	-	A	-	-	-	-	-	A	A	A	A	-
Xylene*	C ₆ H ₄ (CH ₃) ₂	-	0.90	-	-	D	350	D	250	D	A	A	180	D
Zinc Chloride	ZnCL2	-	2.90	-	-	140	350	140	250	180	A	A	200	180
Zinc Hydrosulphite	-	-	-	A	-	-	-	-	-	-	A	A	-	A
Zinc Hydrosulfate	-	-	-	A	B	C	A	B	A	A	A	A	A	A
Zinc Sulfate	ZnSO ₄	-	2.00	-	-	140	400	140	275	180	A	A	200	180

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