

## CHEMICAL RESISTANCE GUIDE

Corrosion resistances data given in this publication are based on laboratory tests conducted by the manufacturers of the materials covered and are indicative only of the conditions under which the tests were made. The information may be considered as a basis for recommendation but not as a guarantee. Materials should be tested in actual service to determine suitability for a particular purpose. The resistance can be affected by presence of other chemicals (or mixture), concentration, duration and frequency of exposure.

Chemical	Conc.	Temp.		PVC
		°C	°F	
Acetaldehyde	Pure	20	68	X
		40	104	
		60	140	
Acetaldehyde (Aqueous)	40	20	68	X
		40	104	
		60	140	
Acetamide	Satu	20	68	U
		40	104	
		60	140	
Acetic Acid	10	20	68	A
		40	104	A
		60	140	A
Acetic Acid	20	20	68	A
		40	104	A
		60	140	A
Acetic Acid	50	20	68	A
		40	104	A
		60	140	B
Acetic Acid	80	20	68	A
		40	104	B
		60	140	C
Acetic Acid (Glacial)	99	20	68	X
		40	104	
		60	140	
Acetic Anhydride	Pure	20	68	X
		40	104	
		60	140	
Acetone	Pure	20	68	X
		40	104	
		60	140	
Acetone (Aqueous)	10 ppm	20	68	A
		40	104	A
		60	140	B
Acetonitrile		20	68	U
		40	104	
		60	140	
Acetophenone		20	68	U
		40	104	
		60	140	
Acetyl Acetone		20	68	X
		40	104	
		60	140	
Acetyl Bromide		20	68	U
		40	104	
		60	140	
Acetyl Chloride		20	68	U
		40	104	
		60	140	
Acetylene		20	68	A
		40	104	
		60	140	
Acrylonitrile		20	68	X
		40	104	
		60	140	
Adipic Acid	Satu	20	68	A
		40	104	A
		60	140	A

Chemical	Conc.	Temp.		PVC
		°C	°F	
Allyl Alcohol		20	68	A
		40	104	
		60	140	
Allyl Chloride		20	68	X
		40	104	
		60	140	
Alum (Potassium alum)	Satu	20	68	A
		40	104	A
		60	140	A
Aluminum Acetate	Satu	20	68	A
		40	104	B
		60	140	
Aluminum Ammonium Sulfate (Ammonium Alum)	Satu	20	68	U
		40	104	
		60	140	
Aluminum Bromide	Satu	20	68	A
		40	104	A
		60	140	A
Aluminum Chloride	Satu	20	68	A
		40	104	A
		60	140	B
Aluminum Fluoride	Satu	20	68	A
		40	104	A
		60	140	A
Aluminum Hydroxide	Satu	20	68	A
		40	104	A
		60	140	A
Aluminum Nitrate	Satu	20	68	A
		40	104	A
		60	140	A
Aluminum Sulfate	Satu	20	68	A
		40	104	A
		60	140	A
Amber Acid (Succinic Acid)	Satu	20	68	A
		40	104	A
		60	140	A
Aminoacetic Acid	10	20	68	A
		40	104	A
		60	140	
Ammonia Gas	100	20	68	A
		40	104	A
		60	140	A
Ammonia Solution (Ammonium Hydroxide)	10	20	68	A
		40	104	A
		60	140	A
Ammonium Acetate	Satu	20	68	A
		40	104	A
		60	140	A
Ammonium Bicarbonate		20	68	A
		40	104	A
		60	140	A
Ammonium Carbonate	Satu	20	68	A
		40	104	A
		60	140	A
Ammonium Chloride	Satu	20	68	A
		40	104	A
		60	140	A

Chemical	Conc.	Temp.		PVC
		°C	°F	
Ammonium Fluoride	20	20	68	A
		40	104	A
		60	140	
Ammonium Hydrogen-fluoride	Satu	20	68	A
		40	104	A
		60	140	A
Ammonium Hydroxide (Ammonium Solution)	10	20	68	A
		40	104	A
		60	140	A
Ammonium Hydroxide (Ammonium Solution)	40	20	68	A
		40	104	A
		60	140	B
Ammonium Metaphosphate		20	68	A
		40	104	A
		60	140	A
Ammonium Nitrate		20	68	A
		40	104	A
		60	140	B
Ammonium Perchlorate	10	20	68	A
		40	104	A
		60	140	A
Ammonium Persulfate		20	68	A
		40	104	A
		60	140	
Ammonium Phosphate		20	68	A
		40	104	A
		60	140	A
Ammonium Sulfate	Satu	20	68	A
		40	104	A
		60	140	A
Ammonium Sulfide	Satu	20	68	A
		40	104	A
		60	140	B
Ammonium Sulfite		20	68	A
		40	104	A
		60	140	
Amyl Acetate	Pure	20	68	X
		40	104	
		60	140	
Amyl Alcohol	Pure	20	68	A
		40	104	A
		60	140	A
Amyl Borate	Pure	20	68	X
		40	104	
		60	140	
Amyl Chloride	Pure	20	68	X
		40	104	
		60	140	
Aniline	Pure	20	68	C
		40	104	X
		60	140	
Aniline Hydrochloride	Pure	20	68	B
		40	104	B
		60	140	C
Animal Oil (Lard)		20	68	A
		40	104	A
		60	140	A

**A: Excellent** = Recommended    **B: Good** = Recommended    **C: Fair** (limited life)    **X: Not Recommended**    **U: Not Tested**  
**Conc. : Concentration (%)**    **Satu. : Saturated**

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Chemical	Conc.	Temp.		PVC
		°C	°F	
Antimony Trichloride	Satu	20	68	A
		40	104	A
		60	140	B
Antimony Trioxide		20	68	U
		40	104	
		60	140	
Aqua Regia		20	68	C
		40	104	C
		60	140	
Arsenic Acid	Satu	20	68	A
		40	104	B
		60	140	C
Asphalt		20	68	X
		40	104	
		60	140	
Barium Carbonate	Satu	20	68	A
		40	104	A
		60	140	A
Barium Chloride	Satu	20	68	A
		40	104	A
		60	140	A
Barium Hydroxide	Satu	20	68	A
		40	104	A
		60	140	A
Barium Nitrate	Satu	20	68	A
		40	104	A
		60	140	A
Barium Sulfate	Satu	20	68	A
		40	104	A
		60	140	A
Barium Sulfide	Satu	20	68	A
		40	104	A
		60	140	A
Beer		20	68	A
		40	104	A
		60	140	A
Beet Sugar Liquors		20	68	A
		40	104	A
		60	140	A
Benzaldehyde	Satu	20	68	X
		40	104	
		60	140	
Benzene	Pure	20	68	C
		40	104	X
		60	140	
Benzene Sulfonic Acid	10	20	68	A
		40	104	
		60	140	
Benzine	Pure	20	68	U
		40	104	
		60	140	
Benzoic Acid	Pure	20	68	A
		40	104	A
		60	140	B
Benzoyl Chloride		20	68	X
		40	104	
		60	140	
Benzyl Alcohol	Pure	20	68	U
		40	104	
		60	140	
Benzyl Benzoate	Satu	20	68	U
		40	104	
		60	140	
Benzyl Chloride	Pure	20	68	U
		40	104	
		60	140	
Black Liquor	Satu	20	68	A
		40	104	A
		60	140	B

Chemical	Conc.	Temp.		PVC
		°C	°F	
Bleaching Agent	5	20	68	A
		40	104	A
		60	140	A
Bleaching Agent	12	20	68	A
		40	104	A
		60	140	A
Borax (Sodium Borate)	Satu	20	68	A
		40	104	A
		60	140	A
Boric Acid	Satu	20	68	A
		40	104	A
		60	140	A
Boron Trichloride		20	68	A
		40	104	A
		60	140	A
Bromic Acid	Pure	20	68	A
		40	104	A
		60	140	
Bromine Vapor	25	20	68	B
		40	104	C
		60	140	
Bromine Solution (Aqueous)	Satu	20	68	A
		40	104	B
		60	140	
Butadiene	Gas	20	68	A
		40	104	A
		60	140	A
Butane	Gas	20	68	A
		40	104	A
		60	140	A
Butyl Acetate	Pure	20	68	C
		40	104	X
		60	140	
Butyl Acrylate	Pure	20	68	X
		40	104	
		60	140	
Butyl Alcohol	Pure	20	68	A
		40	104	A
		60	140	B
Butyl Amine	Satu	20	68	X
		40	104	
		60	140	
Butyl Bromide	Pure	20	68	U
		40	104	
		60	140	
Butyl Carbitol		20	68	U
		40	104	
		60	140	
Butyl Cellosolve	Pure	20	68	U
		40	104	
		60	140	
Butyl Chloride		20	68	X
		40	104	
		60	140	
Butyn Diol		20	68	A
		40	104	B
		60	140	
Butyl Ether		20	68	X
		40	104	
		60	140	
Butyl Mercaptan	Pure	20	68	U
		40	104	
		60	140	
Butyl Phenol		20	68	C
		40	104	
		60	140	
Butyl Phthalate		20	68	U
		40	104	
		60	140	

Chemical	Conc.	Temp.		PVC
		°C	°F	
Butyl Stearate	Pure	20	68	U
		40	104	
		60	140	
Butylene		20	68	U
		40	104	
		60	140	
Butyric Acid	Pure	20	68	B
		40	104	
		60	140	
Caffeine Citrate		20	68	U
		40	104	
		60	140	
Calcium Acetate	Satu	20	68	A
		40	104	A
		60	140	A
Calcium Bisulfite (Calcium hydrogen sulfite)		20	68	A
		40	104	A
		60	140	
Calcium Bromide		20	68	A
		40	104	A
		60	140	A
Calcium Carbonate	Satu	20	68	A
		40	104	A
		60	140	A
Calcium Chlorate	Satu	20	68	A
		40	104	A
		60	140	A
Calcium Chloride	Satu	20	68	A
		40	104	A
		60	140	A
Calcium Hydroxide	Satu	20	68	A
		40	104	A
		60	140	A
Calcium Hypochlorite	Satu	20	68	A
		40	104	A
		60	140	B
Calcium Nitrate		20	68	A
		40	104	A
		60	140	A
Calcium Sulfate	Satu	20	68	A
		40	104	A
		60	140	A
Calcium Sulfide	Satu	20	68	A
		40	104	A
		60	140	A
Caprylic Acid	Pure	20	68	U
		40	104	
		60	140	
Carbitol		20	68	A
		40	104	B
		60	140	
Carbon Dioxide Gas	Wet	20	68	A
		40	104	A
		60	140	A
Carbon Dioxide Gas	Dry	20	68	A
		40	104	A
		60	140	A
Carbon Disulfide	Pure	20	68	C
		40	104	C
		60	140	X
Carbon Monoxide	Gas	20	68	A
		40	104	A
		60	140	A
Carbon Tetrachloride	Pure	20	68	C
		40	104	X
		60	140	
Carbonic Acid	Satu	20	68	A
		40	104	A
		60	140	A

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Conc. : Concentration (%)    Satu. : Saturated

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Chemical	Conc.	Temp.		PVC
		°C	°F	
Casein		20	68	U
		40	104	
		60	140	
Castor Oil	Pure	20	68	A
		40	104	A
		60	140	A
Chloric Acid	20	20	68	A
		40	104	A
		60	140	B
Chlorine Dioxide	8 gm/li	20	68	A
		40	104	A
		60	140	B
Chlorine Dioxide	14 gm/li	20	68	A
		40	104	A
		60	140	B
Chlorine Gas	Wet	20	68	A
		40	104	A
		60	140	B
Chlorine Gas (up to 150 ppm moisture)	Dry	20	68	A
		40	104	A
		60	140	A
Chlorine Solution (Chlorinated Water)	400 ppm	20	68	A
		40	104	A
		60	140	B
Chlorine Solution (Chlorinated Water)	3000 ppm	20	68	A
		40	104	A
		60	140	
Chlorobenzene (Monochloro- benzene)	Pure	20	68	X
		40	104	
		60	140	
Chloroform (Trichloro-methane)	Pure	20	68	X
		40	104	
		60	140	
Chloro- sulfonic Acid	Pure	20	68	X
		40	104	
		60	140	
Chromic Acid Anhydride	10	20	68	A
		40	104	A
		60	140	A
Chromic Acid Anhydride	20	20	68	A
		40	104	A
		60	140	B
Chromic Acid Anhydride	30	20	68	C
		40	104	X
		60	140	
Chromic Acid Anhydride	50	20	68	C
		40	104	X
		60	140	
Chromic Potassium Alum	Satu	20	68	A
		40	104	A
		60	140	A
Citric Acid	10	20	68	A
		40	104	A
		60	140	B
Coconut Oil		20	68	A
		40	104	A
		60	140	A
Copper Acetate	Satu	20	68	A
		40	104	
		60	140	
Copper Borofluoride		20	68	A
		40	104	
		60	140	
Copper Carbonate	Satu	20	68	A
		40	104	A
		60	140	
Copper Chloride	Satu	20	68	A
		40	104	A
		60	140	A

Chemical	Conc.	Temp.		PVC
		°C	°F	
Copper Cyanide	Satu	20	68	A
		40	104	
		60	140	
Copper Fluoride	Satu	20	68	A
		40	104	A
		60	140	B
Copper Nitrate		20	68	A
		40	104	A
		60	140	B
Copper Sulfate	Satu	20	68	A
		40	104	A
		60	140	A
Corn Oil		20	68	A
		40	104	A
		60	140	A
Corn Syrup		20	68	A
		40	104	A
		60	140	A
Cottonseed Oil		20	68	A
		40	104	A
		60	140	A
Creosote		20	68	X
		40	104	
		60	140	
Cresol	Pure	20	68	C
		40	104	
		60	140	
Croton Aldehyde	Pure	20	68	X
		40	104	
		60	140	
Cryolite		20	68	B
		40	104	B
		60	140	B
Cupric Bromide		20	68	A
		40	104	
		60	140	
Cupric Fluoride	Satu	20	68	A
		40	104	A
		60	140	A
Cuprous Chloride	Satu	20	68	A
		40	104	A
		60	140	A
Cyclohexane	Pure	20	68	X
		40	104	
		60	140	
Cyclohexanol	Pure	20	68	X
		40	104	
		60	140	
Cyclohexanone	Pure	20	68	X
		40	104	
		60	140	
Decalin	Pure	20	68	U
		40	104	
		60	140	
Decane	Pure	20	68	U
		40	104	
		60	140	
DEHPA (DI-2- Ethyl Hexyl Phosphoric Acid)		20	68	A
		40	104	A
		60	140	
Dextrine	Satu	20	68	A
		40	104	A
		60	140	A
Dextrose (Glucose)		20	68	A
		40	104	A
		60	140	A
Diacetone Alcohol	Pure	20	68	U
		40	104	
		60	140	

Chemical	Conc.	Temp.		PVC
		°C	°F	
Dibenzyl Ether	Pure	20	68	U
		40	104	
		60	140	
Dibutyl Amine	Pure	20	68	U
		40	104	
		60	140	
Dibutyl Ether	Pure	20	68	X
		40	104	
		60	140	
Dibutyl Phthalate	Pure	20	68	X
		40	104	
		60	140	
Dibutyl Sebacate		20	68	U
		40	104	
		60	140	
Dichloro- acetic Acid		20	68	A
		40	104	
		60	140	
Dichloro- benzene	Pure	20	68	X
		40	104	
		60	140	
Dichloro- ethylene		20	68	X
		40	104	
		60	140	
Dichloro- isopropyl Ether	Pure	20	68	U
		40	104	
		60	140	
Diethylamine	Pure	20	68	X
		40	104	
		60	140	
Diethylene- triamine		20	68	X
		40	104	
		60	140	
Diethylether	Pure	20	68	X
		40	104	
		60	140	
Diglycolic Acid	Satu	20	68	A
		40	104	A
		60	140	
Diisobutyl Ketone	Pure	20	68	X
		40	104	
		60	140	
Diisobutylene	Pure	20	68	X
		40	104	
		60	140	
Diisopropyl Ketone	Pure	20	68	X
		40	104	
		60	140	
Diluent (LIX 84)		20	68	A
		40	104	A
		60	140	
Dimethyl Acetamide		20	68	X
		40	104	
		60	140	
Dimethyl Amine	Pure	20	68	X
		40	104	
		60	140	
Dimethyl- aniline	Pure	20	68	X
		40	104	
		60	140	
Dimethyl Ether		20	68	U
		40	104	
		60	140	
Dimethyl- formamide	Pure	20	68	X
		40	104	
		60	140	
Dimethyl Phthalate		20	68	X
		40	104	
		60	140	

**A: Excellent = Recommended    B: Good = Recommended    C: Fair (limited life)    X: Not Recommended    U: Not Tested**

**Conc. : Concentration (%)    Satu. : Satured**

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Chemical	Conc.	Temp.		PVC
		°C	°F	
Dimethyl Sulfoxide (DMP)		20	68	U
		40	104	
		60	140	
Diocetyl Phthalate (DOP)		20	68	X
		40	104	
		60	140	
Dioxane	Pure	20	68	X
		40	104	
		60	140	
Dioxolane		20	68	X
		40	104	
		60	140	
Diphenyl Oxide	Satu	20	68	X
		40	104	
		60	140	
Disodium Hydrogen Ortho Phosphate		20	68	A
		40	104	A
		60	140	A
Epichloro- hydrin	Pure	20	68	X
		40	104	
		60	140	
Ethanolamine (Monoethanol- amine)	Pure	20	68	X
		40	104	
		60	140	
Ethers (see Ethyl Ether)		20	68	X
		40	104	
		60	140	
Ethyl Acetate	Pure	20	68	X
		40	104	
		60	140	
Ethyl Acetoacetate	Pure	20	68	X
		40	104	
		60	140	
Ethyl Acrylate	Pure	20	68	X
		40	104	
		60	140	
Ethyl Alcohol	Pure	20	68	A
		40	104	A
		60	140	B
Ethyl Benzene		20	68	X
		40	104	
		60	140	
Ethyl Chloride		20	68	X
		40	104	
		60	140	
Ethyl Ether	Pure	20	68	X
		40	104	
		60	140	
Ethyl Formate	Pure	20	68	U
		40	104	
		60	140	
2-Ethyl Hexanol		20	68	U
		40	104	
		60	140	
Ethyl Mercaptan	Pure	20	68	U
		40	104	
		60	140	
Ethyl Monochloro- acetate	Pure	20	68	C
		40	104	
		60	140	
Ethyl Oxalate		20	68	U
		40	104	
		60	140	
Ethylene Bromide	Pure	20	68	X
		40	104	
		60	140	
Ethylene Chloride (Ethylene Dichloride)		20	68	X
		40	104	
		60	140	

Chemical	Conc.	Temp.		PVC
		°C	°F	
Ethylene Chlorohydrin	Pure	20	68	X
		40	104	
		60	140	
Ethylene Diamine	Pure	20	68	X
		40	104	
		60	140	
Ethylene Glycol	Pure	20	68	A
		40	104	A
		60	140	A
Ethylene Oxide	Pure	20	68	X
		40	104	
		60	140	
Fatty Acids		20	68	A
		40	104	A
		60	140	A
Ferrous Chloride	Satu	20	68	A
		40	104	A
		60	140	B
Ferric Hydroxide	Satu	20	68	A
		40	104	A
		60	140	A
Ferric Nitrate	Satu	20	68	A
		40	104	A
		60	140	A
Ferric Sulfate		20	68	A
		40	104	A
		60	140	A
Ferric Sulfide		20	68	A
		40	104	A
		60	140	A
Ferric Chloride	Satu	20	68	A
		40	104	A
		60	140	B
Ferrous Hydroxide	Satu	20	68	A
		40	104	A
		60	140	A
Ferrous Nitrate	Satu	20	68	A
		40	104	A
		60	140	A
Ferrous Sulfate		20	68	A
		40	104	A
		60	140	A
Fluoboric Acid	Pure	20	68	A
		40	104	A
		60	140	B
Fluorine Gas	Wet	20	68	A
		40	104	B
		60	140	X
Fluorosilicic Acid (Hydrofluoro- silicic Acid)	50	20	68	A
		40	104	A
		60	140	B
Fluor Sulphonic Acid	50%	20	68	U
		40	104	
		60	140	
Formaldehyde	35	20	68	A
		40	104	A
		60	140	C
Formaldehyde	37	20	68	A
		40	104	A
		60	140	C
Formaldehyde	50	20	68	A
		40	104	A
		60	140	C
Formic Acid	90	20	68	A
		40	104	B
		60	140	X
Freon F-11		20	68	A
		40	104	A
		60	140	A

Chemical	Conc.	Temp.		PVC
		°C	°F	
Freon F-12		20	68	A
		40	104	A
		60	140	A
Freon F-21		20	68	X
		40	104	
		60	140	
Freon F-22		20	68	X
		40	104	
		60	140	
Freon F-113		20	68	B
		40	104	
		60	140	
Freon F-114		20	68	B
		40	104	
		60	140	
Fructose		20	68	A
		40	104	A
		60	140	A
Fruit Juice	Pure	20	68	A
		40	104	A
		60	140	A
Furan		20	68	U
		40	104	
		60	140	
Furfural	Pure	20	68	X
		40	104	
		60	140	
Furfuryl Alcohol	Pure	20	68	X
		40	104	
		60	140	
Gallic Acid		20	68	U
		40	104	
		60	140	
Gasoline - Regular*		20	68	B
		40	104	B
		60	140	
Gasoline - Sour		20	68	B
		40	104	B
		60	140	
Gelatin & Glue		20	68	A
		40	104	A
		60	140	A
Glycerol (Glycerine)	Pure	20	68	A
		40	104	A
		60	140	A
Glycolic Acid	Satu	20	68	U
		40	104	
		60	140	
Glycols (Ethylene Glycol)		20	68	A
		40	104	A
		60	140	A
Heptane		20	68	A
		40	104	A
		60	140	B
Hexane		20	68	A
		40	104	B
		60	140	
Hexyl Alcohol	Pure	20	68	A
		40	104	A
		60	140	B
Hydrazine	Pure	20	68	X
		40	104	
		60	140	
Hydrobromic	20	20	68	A
		40	104	A
		60	140	B
Hydrobromic Acid	47	20	68	A
		40	104	A
		60	140	B

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Conc. : Concentration (%)    Satu. : Saturated

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Racing ahead for safety and environment

Chemical	Conc.	Temp.		PVC
		°C	°F	
Hydrochloric Acid	25	20	68	A
		40	104	A
		60	140	A
Hydrochloric Acid	35	20	68	A
		40	104	A
		60	140	B
Hydrochloric Acid	38	20	68	A
		40	104	A
		60	140	B
Hydrocyanic Acid		20	68	A
		40	104	A
		60	140	A
Hydrofluoric Acid	10	20	68	A
		40	104	A
		60	140	C
Hydrofluoric Acid	30	20	68	A
		40	104	B
		60	140	C
Hydrofluoric Acid	40	20	68	B
		40	104	C
		60	140	X
Hydrofluoric Acid	55	20	68	B
		40	104	C
		60	140	X
Hydrogen		20	68	A
		40	104	A
		60	140	A
Hydrogen Fluoride (Anhydrous)		20	68	U
		40	104	
		60	140	
Hydrogen Peroxide	20	20	68	A
		40	104	A
		60	140	B
Hydrogen Peroxide	35	20	68	A
		40	104	B
		60	140	C
Hydrogen Peroxide	50	20	68	B
		40	104	C
		60	140	
Hydrogen Sulfide Gas	Dry	20	68	A
		40	104	A
		60	140	A
Hydrogen Sulfide		20	68	A
		40	104	A
		60	140	A
Hydroiodic Acid		20	68	A
		40	104	A
		60	140	
Hydroquinone	Satu	20	68	A
		40	104	A
		60	140	A
Hypochlorous Acid	10	20	68	A
		40	104	A
		60	140	A
Iodine		20	68	C
		40	104	X
		60	140	
Isobutyl Alcohol	Pure	20	68	A
		40	104	A
		60	140	
Iso-octane		20	68	A
		40	104	
		60	140	
Isophorone	Pure	20	68	U
		40	104	
		60	140	
Isopropyl Acetate	Pure	20	68	U
		40	104	
		60	140	

Chemical	Conc.	Temp.		PVC
		°C	°F	
Isopropyl Alcohol	Pure	20	68	A
		40	104	A
		60	140	A
Isopropyl Chloride		20	68	U
		40	104	
		60	140	
Isopropyl Ether	Pure	20	68	U
		40	104	
		60	140	
Jet Fuel JP-4		20	68	A
		40	104	A
		60	140	B
Jet Fuel JP-5		20	68	A
		40	104	A
		60	140	B
Kerosene		20	68	B
		40	104	B
		60	140	C
Lacquer (Nitroselrouse lacquer)		20	68	X
		40	104	
		60	140	
Lactic Acid	25	20	68	A
		40	104	A
		60	140	A
Lactic Acid	80	20	68	A
		40	104	B
		60	140	
Lard (Animal Oil)		20	68	A
		40	104	
		60	140	
Lauric Acid		20	68	A
		40	104	A
		60	140	
Lauroyl Chloride	Pure	20	68	U
		40	104	
		60	140	
Lead Acetate	Satu	20	68	A
		40	104	A
		60	140	A
Lead Chloride		20	68	A
		40	104	A
		60	140	A
Lead Nitrate	Satu	20	68	A
		40	104	A
		60	140	A
Lead Sulfate		20	68	A
		40	104	A
		60	140	A
Lemon Oil		20	68	U
		40	104	
		60	140	
Linoleic Acid		20	68	A
		40	104	A
		60	140	B
Linoleic Oil		20	68	A
		40	104	A
		60	140	B
Linseed Oil		20	68	A
		40	104	A
		60	140	A
Lithium Bromide LiBr	60	20	68	A
		40	104	A
		60	140	A
Lithium Chloride LiCl	Satu	20	68	A
		40	104	A
		60	140	A
Lithium Hydroxide		20	68	A
		40	104	A
		60	140	A

Chemical	Conc.	Temp.		PVC
		°C	°F	
Liquor (Gin, Whiskey, etc.)		20	68	A
		40	104	A
		60	140	
Magnesium Carbonate		20	68	A
		40	104	A
		60	140	A
Magnesium Chloride	Satu	20	68	A
		40	104	A
		60	140	B
Magnesium Citrate		20	68	A
		40	104	A
		60	140	A
Magnesium Fluoride	Satu	20	68	A
		40	104	A
		60	140	A
Magnesium Hydroxide	Satu	20	68	A
		40	104	A
		60	140	A
Magnesium Nitrate		20	68	A
		40	104	A
		60	140	A
Magnesium Sulfate (Epsom Salts)		20	68	A
		40	104	A
		60	140	A
Maleic Acid		20	68	A
		40	104	A
		60	140	B
Malic Acid	Satu	20	68	A
		40	104	A
		60	140	A
Manganese Chloride		20	68	A
		40	104	A
		60	140	B
Manganese Sulfate		20	68	A
		40	104	A
		60	140	A
Mercuric Chloride		20	68	A
		40	104	A
		60	140	A
Mercuric Cyanide	Satu	20	68	A
		40	104	A
		60	140	A
Mercuric Nitrate		20	68	A
		40	104	A
		60	140	A
Mercuric Sulfate	Satu	20	68	A
		40	104	A
		60	140	A
Mercurous Nitrate	Satu	20	68	A
		40	104	A
		60	140	A
Mercury		20	68	A
		40	104	A
		60	140	A
Methane		20	68	A
		40	104	A
		60	140	B
Methane Sulfonic Acid	50	20	68	U
		40	104	
		60	140	
Methyl Acetate	Pure	20	68	X
		40	104	
		60	140	
Methyl Acrylate	Pure	20	68	U
		40	104	
		60	140	
Methyl Alcohol	Pure	20	68	A
		40	104	B
		60	140	B

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**Conc. : Concentration (%)            Satu. : Saturated**

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Chemical	Conc.	Temp.		PVC
		°C	°F	
Methyl Amine		20	68	X
		40	104	
		60	140	
Methyl Bromide		20	68	C
		40	104	
		60	140	
Methyl Cellosolve		20	68	A
		40	104	
		60	140	
Methyl Chloride		20	68	X
		40	104	
		60	140	
Methyl Chloroform		20	68	X
		40	104	
		60	140	
Methyl Ethyl Ketone (MEK)		20	68	X
		40	104	
		60	140	
Methyl Formate		20	68	U
		40	104	
		60	140	
Methyl Isobutyl Carbinol		20	68	U
		40	104	
		60	140	
Methyl Isobutyl Ketone		20	68	X
		40	104	
		60	140	
Methyl Isopropyl Ketone		20	68	U
		40	104	
		60	140	
Methyl Methacrylate		20	68	U
		40	104	
		60	140	
Methyl Monochloro-acetate	Pure	20	68	C
		40	104	
		60	140	
Methyl Salicylate		20	68	U
		40	104	
		60	140	
Methylene Bromide		20	68	U
		40	104	
		60	140	
Methylene Chloride		20	68	X
		40	104	
		60	140	
Methylene Iodine		20	68	U
		40	104	
		60	140	
Monochloro- acetic acid	50	20	68	A
		40	104	B
		60	140	B
Monochloro- benzene		20	68	X
		40	104	
		60	140	
Monoethanol- amine (Ethanamine)		20	68	X
		40	104	
		60	140	
Monomethy- laniline		20	68	U
		40	104	
		60	140	
Morpholine	Pure	20	68	X
		40	104	
		60	140	
Naphtha		20	68	A
		40	104	
		60	140	
Naphthalene		20	68	X
		40	104	
		60	140	

Chemical	Conc.	Temp.		PVC
		°C	°F	
Natural Gas		20	68	A
		40	104	A
		60	140	B
Nickel Acetate	Satu	20	68	A
		40	104	A
		60	140	A
Nickel Dichloride	Satu	20	68	A
		40	104	A
		60	140	A
Nickel Nitrate	Satu	20	68	A
		40	104	A
		60	140	A
Nickel Sulfate	Satu	20	68	A
		40	104	A
		60	140	A
Nicotine		20	68	A
		40	104	A
		60	140	A
Nicotinic Acid		20	68	A
		40	104	A
		60	140	A
Nitric Acid	10	20	68	A
		40	104	A
		60	140	A
Nitric Acid	30	20	68	A
		40	104	A
		60	140	B
Nitric Acid	50	20	68	A
		40	104	B
		60	140	B
Nitric Acid	70	20	68	A
		40	104	B
		60	140	C
Nitric Acid	98	20	68	X
		40	104	
		60	140	
Nitrobenzene		20	68	X
		40	104	
		60	140	
Nitroethane	Pure	20	68	U
		40	104	
		60	140	
Nitrogen Dioxide		20	68	A
		40	104	
		60	140	
Nitromethane	Pure	20	68	U
		40	104	
		60	140	
Nitrotoluene	Pure	20	68	X
		40	104	
		60	140	
Nitrous Acid	10	20	68	U
		40	104	
		60	140	
Nitrous Oxide		20	68	A
		40	104	A
		60	140	A
Octane		20	68	U
		40	104	
		60	140	
Octene	Pure	20	68	U
		40	104	
		60	140	
Oil - Heavy		20	68	B
		40	104	
		60	140	
Oil - Light (Incl. Diesel Fuels)		20	68	A
		40	104	
		60	140	

Chemical	Conc.	Temp.		PVC
		°C	°F	
Oil - Lubricating (ASTM 1)		20	68	A
		40	104	A
		60	140	A
Oil - Lubricating (ASTM 2 and 3)		20	68	A
		40	104	A
		60	140	A
Oil - Sulfonated		20	68	A
		40	104	
		60	140	
Oil - Machine, Mineral, Motor		20	68	A
		40	104	A
		60	140	A
Oil - Petroleum (Crude Oil)		20	68	B
		40	104	
		60	140	
Oleic Acid		20	68	A
		40	104	A
		60	140	A
Oleum (fuming sulphuric acid)		20	68	X
		40	104	
		60	140	
Olive Oil		20	68	A
		40	104	A
		60	140	A
Organic Phosphorus Series Insecticide (Sumition®)		20	68	X
		40	104	
		60	140	
Oxalic Acid	20	20	68	A
		40	104	A
		60	140	A
Oxalic Acid	50	20	68	A
		40	104	A
		60	140	A
Oxygen Gas		20	68	A
		40	104	A
		60	140	A
Ozone Gas	7000 ppm	20	68	X
		40	104	
		60	140	
Ozone Solution (Aqueous)	10 ppm	20	68	A
		40	104	A
		60	140	B
Ozone Solution (Aqueous)	0.5 mg/l	20	68	A
		40	104	A
		60	140	B
Palmitic Acid	Pure	20	68	A
		40	104	
		60	140	
Paraffin Oil		20	68	A
		40	104	A
		60	140	
Peanut Oil		20	68	A
		40	104	
		60	140	
Perchloro- ethylene	Pure	20	68	X
		40	104	
		60	140	
Perchloric Acid	10	20	68	A
		40	104	A
		60	140	B
Perchloric Acid	70	20	68	B
		40	104	
		60	140	
Phenol	Pure	20	68	A
		40	104	B
		60	140	
Phenylhydra- zine		20	68	X
		40	104	
		60	140	

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**Conc. :** Concentration (%)    **Satu. :** Saturated

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Chemical	Conc.	Temp.		PVC
		°C	°F	
Phenylhydra- zinc Hydrochloride		20	68	X
		40	104	
		60	140	
Phosgene Gas		20	68	X
		40	104	
		60	140	
Phosphoric Acid	10	20	68	A
		40	104	A
		60	140	A
Phosphoric Acid	50	20	68	A
		40	104	A
		60	140	A
Phosphoric Acid	85	20	68	A
		40	104	A
		60	140	B
Phosphorus Oxichloride (Phosphoryl chloride)		20	68	X
		40	104	
		60	140	
Phosphorus Pentoxide	Pure	20	68	A
		40	104	
		60	140	
Phosphorus Red		20	68	A
		40	104	
		60	140	
Phosphorus Trichloride	Pure	20	68	X
		40	104	
		60	140	
Phosphorus Yellow		20	68	A
		40	104	
		60	140	
Photographic Solutions (Sodium Thiosulfate)		20	68	A
		40	104	A
		60	140	A
Phthalic Acid		20	68	A
		40	104	
		60	140	
Picric Acid	10	20	68	A
		40	104	A
		60	140	A
Plating Solutions (Brass)		20	68	A
		40	104	A
		60	140	A
Plating Solutions (Cadmium)		20	68	A
		40	104	A
		60	140	A
Plating Solutions (Chrome)		20	68	A
		40	104	A
		60	140	B
Plating Solutions (Copper)		20	68	A
		40	104	A
		60	140	A
Plating Solutions (Gold)		20	68	A
		40	104	A
		60	140	A
Plating Solutions (Lead)		20	68	A
		40	104	A
		60	140	A
Plating Solutions (Rhodium)		20	68	A
		40	104	A
		60	140	A
Plating Solutions (Silver)		20	68	U
		40	104	
		60	140	
Plating Solutions (Tin)		20	68	A
		40	104	A
		60	140	B
Plating Solutions (Zinc)		20	68	U
		40	104	
		60	140	

Chemical	Conc.	Temp.		PVC
		°C	°F	
Polyethylene Glycol		20	68	A
		40	104	A
		60	140	A
Poly Aluminium Chloride		20	68	A
		40	104	A
		60	140	A
Polyvinyl Acetate		20	68	U
		40	104	
		60	140	
Polyvinyl Alcohol		20	68	A
		40	104	A
		60	140	A
Potash (Potassium Carbonate)		20	68	A
		40	104	A
		60	140	A
Potassium Acetate	Satu	20	68	A
		40	104	
		60	140	
Potassium Alum	Satu	20	68	A
		40	104	A
		60	140	A
Potassium Aluminum Silicate		20	68	A
		40	104	A
		60	140	A
Potassium Bicarbonate	Satu	20	68	A
		40	104	A
		60	140	A
Potassium Bichromate	Satu	20	68	A
		40	104	A
		60	140	A
Potassium Bisulfate		20	68	A
		40	104	A
		60	140	A
Potassium Borate		20	68	A
		40	104	A
		60	140	A
Potassium Bromate		20	68	A
		40	104	A
		60	140	A
Potassium Bromide		20	68	A
		40	104	A
		60	140	A
Potassium Chlorate (Aqueous)		20	68	A
		40	104	A
		60	140	B
Potassium Chloride		20	68	A
		40	104	A
		60	140	A
Potassium Chromate		20	68	A
		40	104	A
		60	140	B
Potassium Cyanide		20	68	A
		40	104	A
		60	140	A
Potassium Ferricyanide		20	68	A
		40	104	A
		60	140	A
Potassium Ferrocyanide		20	68	A
		40	104	A
		60	140	A
Potassium Fluoride		20	68	A
		40	104	A
		60	140	A
Potassium Hydroxide (Caustic Potash)	25	20	68	A
		40	104	A
		60	140	A
Potassium Hypochlorite		20	68	A
		40	104	A
		60	140	A

Chemical	Conc.	Temp.		PVC
		°C	°F	
Potassium Iodide		20	68	A
		40	104	A
		60	140	A
Potassium Nitrate		20	68	A
		40	104	A
		60	140	A
Potassium Perborate		20	68	A
		40	104	A
		60	140	A
Potassium Perchlorate		20	68	A
		40	104	A
		60	140	A
Potassium Permanganate	10	20	68	A
		40	104	A
		60	140	B
Potassium Permanganate	25	20	68	A
		40	104	A
		60	140	B
Potassium Persulfate		20	68	A
		40	104	A
		60	140	A
Potassium Phosphate		20	68	A
		40	104	A
		60	140	C
Potassium Sulfate	Pure	20	68	A
		40	104	A
		60	140	A
Potassium Sulfide		20	68	A
		40	104	A
		60	140	A
Potassium Sulfite		20	68	A
		40	104	A
		60	140	A
Potassium Thiocyanate		20	68	A
		40	104	A
		60	140	A
Propane		20	68	A
		40	104	
		60	140	
Propionic Acid	50	20	68	A
		40	104	A
		60	140	
Propyl Acetate	Pure	20	68	U
		40	104	
		60	140	
Propyl Alcohol	Pure	20	68	A
		40	104	A
		60	140	B
Propyl Nitrate		20	68	U
		40	104	
		60	140	
Propylene Dichloride	Pure	20	68	X
		40	104	
		60	140	
Propylene Oxide		20	68	X
		40	104	
		60	140	
Pyridine		20	68	X
		40	104	
		60	140	
Radium Chloride		20	68	A
		40	104	
		60	140	
Rhodium Chloride		20	68	A
		40	104	
		60	140	
Salicylaldehyde		20	68	U
		40	104	
		60	140	

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Conc. : Concentration (%)    Satu. : Satured

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Racing ahead for safety and environment

Chemical	Conc.	Temp.		PVC
		°C	°F	
Salicylic Acid		20	68	A
		40	104	A
		60	140	A
Selenous Acid		20	68	U
		40	104	
		60	140	
Silicic Acid		20	68	A
		40	104	A
		60	140	A
Silicone Oil		20	68	A
		40	104	A
		60	140	A
Silver Acetate		20	68	A
		40	104	
		60	140	
Silver Chloride		20	68	A
		40	104	A
		60	140	A
Silver Cyanide		20	68	A
		40	104	A
		60	140	A
Silver Nitrate		20	68	A
		40	104	A
		60	140	A
Silver Sulfate		20	68	A
		40	104	A
		60	140	A
Sodium Acetate	Satu	20	68	A
		40	104	A
		60	140	A
Sodium Alum	Satu	20	68	A
		40	104	A
		60	140	A
Sodium Benzoate		20	68	A
		40	104	A
		60	140	A
Sodium Bicarbonate		20	68	A
		40	104	A
		60	140	A
Sodium Bichromate	Satu	20	68	A
		40	104	A
		60	140	A
Sodium Bisulfate		20	68	A
		40	104	A
		60	140	A
Sodium Bisulfite		20	68	A
		40	104	A
		60	140	A
Sodium Bromate		20	68	A
		40	104	
		60	140	
Sodium Bromide	Satu	20	68	A
		40	104	A
		60	140	A
Sodium Carbonate		20	68	A
		40	104	A
		60	140	A
Sodium Chlorate	Satu	20	68	A
		40	104	A
		60	140	A
Sodium Chloride (Brine)		20	68	A
		40	104	A
		60	140	A
Sodium Chlorite	25	20	68	X
		40	104	
		60	140	
Sodium Cyanide (Aqueous)		20	68	A
		40	104	A
		60	140	A

Chemical	Conc.	Temp.		PVC
		°C	°F	
Sodium Dithionite	10	20	68	A
		40	104	A
		60	140	
Sodium Ferricyanide	Satu	20	68	A
		40	104	A
		60	140	A
Sodium Ferrocyanide	Satu	20	68	A
		40	104	A
		60	140	A
Sodium Fluoride		20	68	A
		40	104	A
		60	140	A
Sodium Hydroxide (Caustic Soda)	10	20	68	A
		40	104	A
		60	140	A
Sodium Hydroxide (Caustic Soda)	15	20	68	A
		40	104	A
		60	140	A
Sodium Hydroxide (Caustic Soda)	30	20	68	A
		40	104	A
		60	140	A
Sodium Hydroxide (Caustic Soda)	50	20	68	A
		40	104	A
		60	140	A
Sodium Hypochlorite (Bleach)	3	20	68	A
		40	104	A
		60	140	B
Sodium Hypochlorite (Bleach)	5	20	68	A
		40	104	A
		60	140	B
Sodium Hypochlorite (Bleach)	7	20	68	A
		40	104	A
		60	140	B
Sodium Hypochlorite (Bleach)	10	20	68	A
		40	104	A
		60	140	B
Sodium Hypochlorite (Bleach)	13	20	68	A
		40	104	A
		60	140	B
Sodium Iodide		20	68	A
		40	104	A
		60	140	
Sodium Metasilicate		20	68	A
		40	104	A
		60	140	A
Sodium Nitrate	Satu	20	68	A
		40	104	A
		60	140	A
Sodium Nitrite	Satu	20	68	A
		40	104	A
		60	140	B
Sodium Palmitate	5	20	68	U
		40	104	
		60	140	
Sodium Perborate		20	68	U
		40	104	
		60	140	
Sodium Perchlorate		20	68	A
		40	104	A
		60	140	B
Sodium Peroxide		20	68	A
		40	104	A
		60	140	B
Sodium Persulfate	Satu	20	68	A
		40	104	A
		60	140	B
Sodium Phosphate (Acidic)		20	68	A
		40	104	A
		60	140	A

Chemical	Conc.	Temp.		PVC
		°C	°F	
Sodium Phosphate (Alkaline)		20	68	A
		40	104	A
		60	140	A
Sodium Phosphate (Neutral)		20	68	A
		40	104	A
		60	140	A
Sodium Silicofluoride		20	68	A
		40	104	A
		60	140	B
Sodium Sulfate	Satu	20	68	A
		40	104	A
		60	140	A
Sodium Sulfide		20	68	A
		40	104	A
		60	140	A
Sodium Sulfite		20	68	A
		40	104	A
		60	140	A
Sodium Thiocyanate		20	68	A
		40	104	A
		60	140	A
Sodium Thiosulfate (Photographic Solutions)		20	68	A
		40	104	A
		60	140	A
Soybean Oil		20	68	A
		40	104	A
		60	140	A
Stannic Chloride (Tin (IV) Chloride)		20	68	A
		40	104	A
		60	140	A
Stannous Chloride (Tin (II) Chloride)		20	68	A
		40	104	A
		60	140	A
Stearic Acid		20	68	A
		40	104	A
		60	140	A
Styrene		20	68	U
		40	104	
		60	140	
Succinic Acid		20	68	A
		40	104	A
		60	140	A
Sugar Liquors		20	68	A
		40	104	A
		60	140	A
Sulfamic Acid	20	20	68	A
		40	104	A
		60	140	
Sulfur	Pure	20	68	A
		40	104	A
		60	140	B
Sulfur Chloride		20	68	U
		40	104	
		60	140	
Sulfur Dichloride		20	68	U
		40	104	
		60	140	
Sulfur Dioxide Gas	Dry	20	68	A
		40	104	A
		60	140	A
Sulfur Dioxide Gas	Wet	20	68	A
		40	104	A
		60	140	B
Sulfur Trioxide		20	68	X
		40	104	
		60	140	
Sulfuric Acid	10	20	68	A
		40	104	A
		60	140	A

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Chemical	Conc.	Temp.		PVC
		°C	°F	
Sulfuric Acid	30	20	68	A
		40	104	A
		60	140	A
Sulfuric Acid	50	20	68	A
		40	104	A
		60	140	A
Sulfuric Acid	60	20	68	A
		40	104	A
		60	140	A
Sulfuric Acid	70	20	68	A
		40	104	A
		60	140	A
Sulfuric Acid	80	20	68	A
		40	104	A
		60	140	B
Sulfuric Acid	90	20	68	A
		40	104	B
		60	140	B
Sulfuric Acid	93	20	68	A
		40	104	B
		60	140	B
Sulfuric Acid	94	20	68	A
		40	104	B
		60	140	B
Sulfuric Acid	95	20	68	A
		40	104	B
		60	140	C
Sulfuric Acid	96	20	68	A
		40	104	C
		60	140	C
Sulfuric Acid	98	20	68	B
		40	104	C
		60	140	X
Sulfuric Acid	100	20	68	X
		40	104	
		60	140	
Sulfurous Acid		20	68	A
		40	104	A
		60	140	A
Sulfuryl Chloride	Pure	20	68	X
		40	104	
		60	140	
Tall Oil		20	68	A
		40	104	A
		60	140	B
Tannic Acid (Tannin)		20	68	A
		40	104	A
		60	140	A
Tartaric Acid (Dioxysuccinic Acid)		20	68	A
		40	104	A
		60	140	A
Tertiary Butyl Alcohol		20	68	A
		40	104	
		60	140	
Tetrachloro- ethane	Pure	20	68	X
		40	104	
		60	140	
Tetraethyl Lead	Pure	20	68	A
		40	104	
		60	140	
Tetrahydro- furan	Pure	20	68	X
		40	104	
		60	140	
Tetralin (Tetrahydro- naphthalene)	Pure	20	68	X
		40	104	
		60	140	
Tetramethyl Ammonium Hydroxide	50	20	68	U
		40	104	
		60	140	

Chemical	Conc.	Temp.		PVC
		°C	°F	
Titanic Sulfate		20	68	A
		40	104	A
		60	140	A
Titanium Dioxide		20	68	A
		40	104	A
		60	140	A
Titanous Sulfate		20	68	A
		40	104	A
		60	140	A
Titanium Tetrachloride		20	68	X
		40	104	
		60	140	
Toluene (Toluol)		20	68	X
		40	104	
		60	140	
Triacetin	Pure	20	68	U
		40	104	
		60	140	
Tributyl Phosphate		20	68	X
		40	104	
		60	140	
Trichloro- acetic Acid		20	68	C
		40	104	
		60	140	
Trichloro- ethylene		20	68	X
		40	104	
		60	140	
Tricresyl Phosphate	Pure	20	68	X
		40	104	
		60	140	
Triethanola- mine		20	68	U
		40	104	
		60	140	
Triethylamine		20	68	U
		40	104	
		60	140	
Trimethyl- propane		20	68	A
		40	104	A
		60	140	A
Turpentine		20	68	A
		40	104	A
		60	140	A
Uranium Oxide		20	68	U
		40	104	
		60	140	
Urea	50	20	68	A
		40	104	A
		60	140	A
Urine		20	68	A
		40	104	A
		60	140	A
Varsol		20	68	U
		40	104	
		60	140	
Vaseline (Petrolatum)		20	68	A
		40	104	A
		60	140	A
Vinegar		20	68	A
		40	104	A
		60	140	A
Vinyl Acetate		20	68	X
		40	104	
		60	140	
Water - Deionized, Distilled or Potable		20	68	A
		40	104	A
		60	140	A
Water - Sea		20	68	A
		40	104	A
		60	140	A

Chemical	Conc.	Temp.		PVC
		°C	°F	
Water - Waste (Domestic Sewage)		20	68	A
		40	104	A
		60	140	A
Wine (Red and White)		20	68	A
		40	104	A
		60	140	B
Xylene		20	68	X
		40	104	
		60	140	
Zinc Acetate		20	68	A
		40	104	A
		60	140	A
Zinc Bromide	Satu	20	68	A
		40	104	A
		60	140	A
Zinc Chloride		20	68	A
		40	104	A
		60	140	A
Zinc Cyanide		20	68	A
		40	104	
		60	140	
Zinc Nitrate		20	68	A
		40	104	A
		60	140	A
Zinc Sulfate		20	68	A
		40	104	A
		60	140	A

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