

# Contents

<i>Preface</i>	iii
<i>Introduction</i>	v
<i>Using the Tables</i>	ix
<i>Reading the Temperature Scale</i>	xi

## Part A, A–I

---

### A 1

Acetaldehyde / Acetamide / Acetate Solvents, Crude / Acetate Solvents, Pure / Acetic Acid 10% / Acetic Acid 20% / Acetic Acid 50% / Acetic Acid 80% / Acetic Acid, Glacial / Acetic Acid Vapors / Acetic Anhydride / Acetone / Acetone, 50% Water / Acetonitrile / Acetophenone / Acetyl Chloride / Acetylene / Acrylic Acid / Acrylonitrile / Adipic Acid / Allyl Alcohol / Allyl Chloride / Alum (Aluminum Potassium Sulfate) / Alum Ammonium / Alum Ammonium Sulfate / Alum Chrome / Alum Potassium / Aluminum Acetate (Sat.) / Aluminum Chloride Aqueous / Aluminum Chloride Dry / Aluminum Fluoride (Sat.) / Aluminum Hydroxide / Aluminum Nitrate (Sat.) / Aluminum Oxalate / Aluminum Oxychloride / Aluminum Potassium Sulfate / Aluminum Sulfate (Sat.) / Ammonia (Anhydrous) / Ammonia Gas / Ammonium Acetate / Ammonium Bicarbonate / Ammonium Bifluoride / Ammonium Bromide 5% / Ammonium Carbonate (Sat.) / Ammonium Chloride 10% / Ammonium Chloride 28% / Ammonium Chloride 50% / Ammonium Chloride (Sat.) / Ammonium Citrate / Ammonium Fluoride 10% / Ammonium Fluoride 25% / Ammonium Hydroxide 10% / Ammonium Hydroxide 25% / Ammonium Hydroxide (Sat.) / Ammonium Metaphosphate / Ammonium Nitrate / Ammonium Oxalate 10% / Ammonium Oxalate 20–30% / Ammonium Persulfate / Ammonium Phosphate / Ammonium Sulfate 10–40% / Ammonium Sulfide / Ammonium Sulfite / Ammonium Thiocyanate / Amyl Acetate / Amyl Alcohol / Amyl Chloride / Aniline / Aniline Hydrochloride / Anthraquinone / Anthraquinone Sulfonic Acid / Antimony Trichloride / Aqua Regia 3:1 / Aroclor / Arsenic Acid / Asphalt / Asphalt Emulsion /

**B 309**

Barium Carbonate (Sat.) / Barium Chloride (Sat.) / Barium Cyanide / Barium Hydroxide (Sat.) / Barium Nitrate / Barium Sulfate / Barium Sulfide / Beer / Beet Sugar Liquors / Benzaldehyde / Benzene, Benzol / Benzene Sulfonic Acid 10% / Benzene Sulfonic Acid 100% / Benzoic Acid / Benzonitrile / Benzoyl Chloride / Benzyl Acetate / Benzyl Alcohol / Benzyl Chloride / Bismuth Carbonate / Black Liquor / Bleach, 12.5% Active Chlorine / Blood / Borax / Boric Acid / Brine Acid / Bromic Acid / Bromine Gas Dry / Bromine Gas Moist / Bromine Liquid / Bromine Water Dilute / Bromine Water (Sat.) / Bromobenzene / Butadiene (Butylene) / Butane / Butyl Acetate / Butyl Alcohol / Butyl Alcohol Primary / Butyl Alcohol Secondary / Butyl Alcohol Tertiary / n-Butylamine / Butyl Bromide / Butyl Chloride / Butylene (Butadiene) / Butyl Ether / n-Butyl Mercaptan / Butyl Phenol / Butyl Phthalate / Butyne Diol / Butyric Acid

**C 509**

Cadmium Sulfate 10% / Calcium Bicarbonate / Calcium Bisulfate / Calcium Bisulfide / Calcium Bisulfite / Calcium Bromide 38% / Calcium Carbonate / Calcium Chlorate / Calcium Chloride Dilute / Calcium Chloride (Sat.) / Calcium Fluoride / Calcium Hydroxide 10% / Calcium Hydroxide 20% / Calcium Hydroxide 30% / Calcium Hydroxide (Sat.) / Calcium Hypochlorite (Sat.) / Calcium Nitrate / Calcium Oxide / Calcium Sulfate / Camphor / Cane Sugar Liquors / Caprylic Acid / Carbon Bisulfide (Disulfide) / Carbon Dioxide Dry / Carbon Dioxide Wet / Carbon Disulfide (Bisulfide) / Carbon Monoxide / Carbon Tetrachloride / Carbonic Acid / Castor Oil / Caustic Potash (Potassium Hydroxide) / Cellosolve / Cellulose Acetate / Chloracetic Acid 50% Water / Chloracetic Acid / Chloral Hydrate / Chloric Acid 20% / Chlorine Dioxide 15% / Chlorine Gas Dry / Chlorine Gas Wet / Chlorine Liquid / Chlorine Water (Sat.) / Chlorobenzene (Phenylchloride) / Chloroform / Chlorophenol 5% Aqueous / Chlorosulfonic Acid 100% / Chrome Alum / Chromic Acid 10% / Chromic Acid 30% / Chromic Acid 40% / Chromic Acid 50% / Chromyl Chloride / Citric Acid 5% / Citric Acid 10% / Citric Acid 15% / Citric Acid (Conc.) / Clorox Bleach Solution 5.5% Chlorine / Coal Gas / Coconut Oil / Coke Oven Gas / Copper Acetate / Copper Carbonate / Copper Chloride / Copper Cyanide / Copper Fluoride / Copper Nitrate / Copper Sulfate / Corn Oil / Cottonseed Oil / Cresol / Cresylic Acid 50% / Cresylic Acid (Conc.) / Croton Aldehyde / Crude Oil / Cupric Chloride 5% / Cupric Chloride 50% / Cupric Cyanide / Cupric Nitrate / Cyanoacetic Acid / Cyanogen Gas / Cyclohexane / Cyclohexanol / Cyclohexanone

**D 841**

Detergents / Detergent Solution, Heavy Duty / Dextrin / Dextrose / Diacetone Alcohol / Diazo Salts / Dibutyl Phthalate / Dichloroacetic Acid / Dichlorobenzene / Dichlorethane (Ethylenedichloride) / Dichlorethylene / Diesel Fuels / Diethylaniline / Diethylamine / Diethyl Cellosolve / Diethyl Ether / Diethylene Glycol / Diethylene Triamine / Diglycolic Acid / Dimethylamine / Dimethylamine Aqueous / Dimethyl Aniline / Dimethyl Ether / Dimethyl Formamide / Dimethyl Phthalate / Dimethyl Sulfoxide / Dioctyl Phthalate / Dioxane / Diphenyl (Dowtherm) / Disodium Phosphate

**E 961**

Epichlorhydrin / Esters, General / Ethanolamine / Ethers, General / Ethyl Acetate / Ethyl Acetoacetate / Ethyl Acrylate / Ethyl Alcohol / Ethyl Benzene / Ethyl Chloride / Ethyl Ether /

Ethylene Bromide / Ethylene Chloride / Ethylene Chlorohydrin / Ethylene Diamine / Ethylene Dibromide / Ethylene Dichloride (Dichloroethane) / Ethylene Glycol / Ethylene Oxide

**F 1037**

Fatty Acids / Ferric Chloride / Ferric Chloride 50% in Water / Ferric Hydroxide / Ferric Nitrate 10–50% / Ferric Sulfate / Ferrous Ammonium Citrate / Ferrous Chloride (Sat.) / Ferrous Nitrate / Ferrous Sulfate / Fish Solubles / Fluoboric Acid / Fluorine Gas Dry / Fluorine Gas Moist / Fluosilicic Acid / Formaldehyde 35% Solution / Formaldehyde 37% Solution / Formaldehyde 50% Solution / Formic Acid 5% / Formic Acid 10–85% / Formic Acid Anhydrous / Freon F-11 / Freon F-12 / Freon F-22 / Fructose / Fruit Juices, Pulp / Fuel Oil / Furfural

**G 1149**

Gallic Acid / Gas, Manufactured / Gas, Natural / Gasoline, Leaded / Gasoline, Refined / Gasoline, Sour / Gasoline, Unleaded / Gelatin / Gin / Glucose (Corn Syrup) / Glue / Glycerine (Glycerol) / Glycolic Acid / Glycols / Green Liquor

**H 1209**

Heptane / Hexamethylene Tetramine / Hexamine / Hexane / Hexanol, Tertiary / Hydrobromic Acid Dilute / Hydrobromic Acid 20% / Hydrobromic Acid 50% / Hydrochloric Acid Dilute / Hydrochloric Acid 20% / Hydrochloric Acid 35% / Hydrochloric Acid 38% / Hydrochloric Acid 50% / Hydrochloric Acid Fumes / Hydrocyanic Acid 10% / Hydrocyanic Acid (Conc.) / Hydrofluoric Acid Dilute / Hydrofluoric Acid 30% / Hydrofluoric Acid 40% / Hydrofluoric Acid 50% / Hydrofluoric Acid 70% / Hydrofluoric Acid 100% / Hydrofluoric Acid Vapors / Hydrofluosilicic Acid 10–50% / Hydrogen / Hydrogen Chloride Gas Dry / Hydrogen Chloride Gas Moist / Hydrogen Cyanide / Hydrogen Fluoride / Hydrogen Iodide / Hydrogen Peroxide Dilute / Hydrogen Peroxide 30% / Hydrogen Peroxide 50% / Hydrogen Peroxide 90% / Hydrogen Phosphide / Hydrogen Sulfide Aqueous Solution / Hydrogen Sulfide Dry / Hydrogen Sulfide Wet / Hydroiodic Acid (49% + 12% Iodine) / Hydroquinone / Hypochlorous Acid

**I 1373**

Iodine / Iodine Solution 10% / Iodine Solution (Sat.) / Iodine in Alcohol / Iodoform / Isopropyl Acetate / Isopropyl Alcohol / Isopropyl Ether

**Part B, J–Z**

---

**J 1405**

Jet Fuel JP-4 / Jet Fuel JP-5

**K 1413**

Kerosene / Ketones, General / Kraft Liquor

**L 1425**

Lactic Acid 5% / Lactic Acid 10% / Lactic Acid 25% / Lactic Acid 80% / Lactic Acid (Conc.) / Lard Oil / Lauric Acid / Lauryl Chloride / Lead Acetate / Lead Chloride / Lead Nitrate / Lead Sulfate / Lime Sulfur / Linoleic Acid / Linseed Oil / Liqueurs / Lithium Bromide / Lithium Chloride 30% / Lithium Hydroxide 10% / Lubricating Oil

**M 1505**

Machine Oil / Magnesium Carbonate / Magnesium Chloride / Magnesium Citrate / Magnesium Hydroxide / Magnesium Nitrate / Magnesium Sulfate / Maleic Acid / Malic Acid / Manganese Carbonate / Manganese Chloride / Mercuric Chloride / Mercuric Cyanide / Mercuric Nitrate / Mercurous Nitrate / Mercury / Methane / Methane Sulfonic Acid 50% / Methyl Acetate / Methyl Alcohol / Methyl Bromide / Methyl Cellosolve / Methyl Chloride / Methyl Chloroform / Methyl Ethyl Ketone / Methyl Isobutyl Carbinol / Methyl Isobutyl Ketone / Methyl Methacrylate / Methyl Salicylate / Methyl Sulfate / Methyl Sulfuric Acid / Methylene Chloride / Milk / Mineral Oil / Mixed Acids / Molasses / Molybdic Acid 5% / Monochlorobenzene / Monoethanolamine / Morpholine / Motor Oil / Muriatic Acid

**N 1673**

Naphtha / Naphthalene / Nickel Chloride / Nickel Nitrate / Nickel Salt / Nickel Sulfate / Nicotine / Nicotine Acid / Nitric Acid 5% / Nitric Acid 10% / Nitric Acid 20% / Nitric Acid 30% / Nitric Acid 40% / Nitric Acid 50% / Nitric Acid 70% / Nitric Acid 100% (Anhydrous) / Nitric Acid Fuming (Red) / Nitric Acid-Sulfuric Acid 50/50 / Nitrobenzene / Nitrogen / Nitrogen Dioxide / Nitromethane / Nitrous Acid 5% / Nitrous Acid 10% / Nitrous Acid (Conc.) / Nitrous Oxide

**O 1777**

Ocenol / Octane / Oil and Fats / Oils, Vegetable / Oleic Acid / Oleum / Oxalic Acid 5% / Oxalic Acid 10% / Oxalic Acid 50% / Oxalic Acid (Sat.) / Oxygen / Oxygen Gas / Ozone

**P 1829**

Palmitic Acid 10% / Palmitic Acid 70% / Palmitic Acid (Conc.) / Paraffin / Peracetic Acid 40% / Perchloroethylene / Perchloric Acid 10% / Perchloric Acid 70% / Petrolatum / Petroleum Ether / Petroleum Oils, Refined / Petroleum Oils, Sour / Phenol 10% / Phenol (Carbolic Acid) / Phenylhydrazine / Phenylhydrazine Hydrochloride / Phosgene Gas / Phosgene Liquid / Phosphoric Acid 5% / Phosphoric Acid 10% / Phosphoric Acid 25–50% / Phosphoric Acid 50–85% / Phosphorus / Phosphorus Oxychloride / Phosphorus Pentoxide / Phosphorus Red / Phosphorus Trichloride / Phosphorus Yellow / Photographic Solutions / Phthalic Acid / Phthalic Anhydride / Picric Acid / Plating Solutions, Brass / Plating Solutions, Cadmium / Plating Solutions, Chrome 25% / Plating Solutions, Chrome 40% / Plating Solutions, Copper (Cyanide) / Plating Solutions, Gold / Plating Solutions, Iron / Plating Solutions, Lead / Plating Solutions, Nickel / Plating Solutions, Rhodium / Plating Solutions, Silver / Plating Solutions, Tin / Plating Solutions, Zinc / Polyvinyl Acetate / Potassium Acetate / Potassium Aluminum Sulfate / Potassium Bicarbonate 30% / Potassium Bichromate / Potassium Borate / Potassium Bromate / Potassium Bromide 30% / Potassium Carbonate 50% / Potassium Chlorate, Aqueous 30% / Potassium Chloride 30% / Potassium Chromate 30% / Potassium Cyanide 30% / Potassium Dichromate

30% / Potassium Ferricyanide 30% / Potassium Ferrocyanide 30% / Potassium Fluoride / Potassium Hydroxide 5% / Potassium Hydroxide 27% / Potassium Hydroxide 50% / Potassium Hydroxide 90% / Potassium Hypochlorite / Potassium Iodide 70% / Potassium Nitrate 1–5% / Potassium Nitrate 80% / Potassium Nitrite / Potassium Oxalate 20% / Potassium Perborate / Potassium Perchlorate / Potassium Permanganate 10% / Potassium Permanganate 20% / Potassium Peroxide / Potassium Persulfate / Potassium Sulfate 10% / Potassium Sulfide / Propane / Propargyl Alcohol / Propionic Acid / Propyl Alcohol / Propylene Dichloride / Propylene Glycol / Propylene Oxide / Pyridine / Pyrogallic Acid / Pyrogallol / Pyroligeneous Acid

**Q 2197**

Quinine Bisulfate / Quinine Sulfate

**R 2205**

Rayon Coagulating Bath / Resorcinol

**S 2213**

Salenic Acid Aqueous / Salicylic Acid / Salicylaldehyde / Salicylic Acid / Silicone Oil / Silver Bromide 10% / Silver Chloride / Silver Cyanide / Silver Nitrate / Soaps / Soap Solution 5% / Soap Solutions / Sodium Acetate / Sodium Benzoate / Sodium Bicarbonate 20% / Sodium Bichromate Neutral / Sodium Bisulfate / Sodium Bisulfite / Sodium Borate / Sodium Bromide / Sodium Carbonate / Sodium Chlorate / Sodium Chloride / Sodium Chlorite / Sodium Chromate 80% / Sodium Citrate / Sodium Cyanide / Sodium Dichromate / Sodium Ferricyanide / Sodium Ferrocyanide / Sodium Fluoride / Sodium Hydrosulfite / Sodium Hydroxide 10% / Sodium Hydroxide 15% / Sodium Hydroxide 30% / Sodium Hydroxide 50% / Sodium Hydroxide 70% / Sodium Hydroxide Solution (Conc.) / Sodium Hypochlorite 20% / Sodium Hypochlorite (Conc.) / Sodium Hyposulfite 5% / Sodium Iodide / Sodium Lactate / Sodium Metaphosphate / Sodium Nitrate / Sodium Nitrite / Sodium Perborate 10% / Sodium Peroxide 10% / Sodium Phosphate Acid / Sodium Phosphate Alkaline / Sodium Phosphate Neutral / Sodium Silicate / Sodium Sulfate / Sodium Sulfide to 50% / Sodium Sulfite 10% / Sodium Thiosulfate (Hypo) / Sour Crude Oil / Speculum Plating Solution / Stannic Chloride / Stannous Chloride / Stearic Acid / Stoddard's Solvent / Succinic Acid / Sulfamic Acid / Sulfate Liquors / Sulfite Liquors / Sulfonated Detergents / Sulfur / Sulfur Chloride / Sulfur Dichloride / Sulfur Dioxide Dry / Sulfur Dioxide Wet / Sulfur Trioxide / Sulfuric Acid 10% / Sulfuric Acid 30% / Sulfuric Acid 50% / Sulfuric Acid 60% / Sulfuric Acid 70% / Sulfuric Acid 80% / Sulfuric Acid 90% / Sulfuric Acid 95% / Sulfuric Acid 98% / Sulfuric Acid 100% / Sulfuric Acid 103% / Sulfuric Acid Fuming / Sulfuric Anhydride Dry / Sulfurous Acid / Sulfuryl Chloride

**T 2565**

Tall Oil / Tannic Acid / Tanning Liquors / Tartaric Acid / Tetrachloroacetic Acid / Tetrachloroethane / Tetrachloroethylene / Tetraethyl Lead / Tetrahydrofuran / Tetralin / Tetramethyl Ammonium Hydroxide 50% / Tetraphosphoric Acid / Thionyl Chloride / Thread Cutting Oil / Tin Chloride / Titanium Tetrachloride / Toluene (Toluol) / Toluene-Kerosene 25–75% / Tomato Juice / Toxaphene-Xylene 10–90% / Transformer Oil / Tributyl Phosphate / Trichloroacetic Acid / Trichloroacetic Acid 2N / Trichloroethylene / Triethanolamine / Triethylamine / Trimethyl Propane / Trisodium Phosphate / Turpentine

**U 2685**

Uranyl Sulfate 5% / Urea / Uric Acid (Conc.) / Urine

**V 2701**

Vegetable Oil / Vinegar / Vinyl Acetate

**W 2713**

Water, Acid Mine / Water, Demineralized / Water, Distilled / Water, Salt / Water, Sea / Water, Sewage / Whiskey / White Liquor / Wines

**X 2749**

Xylene (Xylol)

**Z 2753**

Zinc Chloride / Zinc Nitrate / Zinc Sulfate 5% / Zinc Sulfate 25% / Zinc Sulfate 50% / Zinc Sulfate (Sat.)

Appendix 1: Chemical Synonyms

A-1-1

Appendix 2: Cross-Reference of Trade Names to Generic Names

A-2-1

Appendix 3: Plating Solution Composition (*Part B only*)

A-3-1