



Chemical Resistance Information

CPVC is inert to most acids, bases, salts, plus a wide variety of organic compounds. Application conditions including chemical concentration and temperature must be taken into consideration. Due to the many variables involved, final suitability often must be based on in-service testing.

The following Chemical Resistance Table recommendations apply only to non-pressure, laboratory drainage applications, which are those characterized as the routine disposal of a wide variety of hot and cold chemicals in relatively small quantities accompanied by water for the purpose of dilution and flushing. For use of **LabWaste®** CPVC products in continuous or dedicated chemical waste drainage systems, chemical resistance data for pressure applications must be followed. Contact Spears® Technical Services for additional information.

In many cases compatibility or solubility data is not available. While specific data may not be available, please note that virtually all aqueous solutions of chemicals used in a laboratory can be safely used with proper dilution and flushing. This includes chemicals that readily disperse in water (such as many fat-soluble vitamins and oils) that can be flushed during disposal.

This information is compiled from commercially available industry sources. It is offered in good faith and believed to be accurate at the time of its preparation, but is offered without any warranty, expressed or implied, by information sources or Spears® Manufacturing Company. These recommendations are guidelines for use and the final decision regarding material suitability must rest with the end-user.

Noted Caution Areas for CPVC

- Disposed chemicals must be properly diluted. Chemicals that individually have no effect may have an effect when used in combination. Due to the wide variety of potential chemical concentrations and combinations, testing under actual service conditions is highly recommended.
- CPVC is not recommended for use with chlorinated solvents. Most solvents are prohibited by law from disposal in drainage systems.
- Chemicals that do not normally effect CPVC may cause cracking when excessive stress is applied. Tests under applied adverse stress conditions indicate that environmental stress cracking may occur when exposed to surfactants, certain oils, or grease. Such stresses include external stresses from expansion/contraction and installation. Special consideration should be taken during design and installation to avoid unusual stresses in the piping system.
- Chemical resistance of plastics tends to decrease with an increase in chemical concentration and/or temperature. As a result, various chemicals may be safely handled in limited concentrations or within certain temperature limits. Most all aqueous solutions of water-soluble chemical not specified in the Chemical Resistance Tables can be used in CPVC drainage systems.
- While **LabWaste®** CPVC products are suitable for many continuous commercial and industrial chemical waste applications, the following Chemical Resistance Tables should **NOT** be used for these applications. Consult chemical resistance data for CPVC pressure piping to determine suitability for continuous chemical waste drainage applications.

WARNING: Hazardous material (including certain solvents and high concentrations of certain acids), are typically not discharged into lab waste piping. Laboratories routinely have specialized collection equipment and contracted disposal services for waste considered "hazardous". Proper laboratory protocols on handling materials identified by OSHA and EPA as "hazardous" must be established and followed. Such requirements typically specify special storage and disposal apart from drainage disposal via dilution or neutralization. Even improper handling and disposal of HAZARDOUS materials by accident are subject to heavy fines by Federal, State and Local Authorities.



LabWaste® Technical CPVC Drainage System Chemical Resistance

Chemical Resistance Tables

Resistance Rating Codes

- R = Recommended
- C = Use with Caution.
- N = Not Recommended.
- = No data available

IMPORTANT NOTE: Chemical Resistance data is provided for material compatibility information purposes only and in no way addresses the legal discharge of chemicals into any waste system, some of which may be prohibited by law. Nor does the data address the compatibility of chemical mixtures, issues of hazardous decomposition, or other potentially dangerous circumstances that be involved. Data is applicable to laboratory drainage systems only and may not be suitable for continuous service or pressure applications.

CHEMICAL	RATING	CHEMICAL	RATING	CHEMICAL	RATING
A		Arsenic Acid	R	Carbon Dioxide Wet	R
Acacia, Gum Arabic	R	Aryl Sulfonic Acid	R	Carbon Disulfide	C
Acetaldehyde	R	Asorbic Acid	R	Carbon Monoxide	R
Acetamide	R	L-Asparagine	R	Carbon Tetrachloride	N
Acetic Acid Vapor 25%	R	Asphalt	N	Carbonic Acid	R
Acetic Acid 60%	R	B		Castor Oil	C
Acetic Acid 85%	R	Barium Acetate	R	Caustic Potash	R
Acetic Acid Glacial	R	Barium Carbonate	R	Caustic Soda	R
Acetic Anhydride	R	Barium Chloride	R	Cellosolve	C
Acetone	R	Barium Hydroxide	R	Cellosolve Acetate	R
Acetophenone	C	Barium Nitrate	R	Chloral Hydrate	R
Acetyl Chloride	R	Barium Sulfate	R	Chloramine	R
Acetylene	N	Barium Sulfide	R	Chloric	R
Acetylnitrile	R	Beer	R	Chloric Acid 20%	R
Acetylsalicylic acid, aspirin	R	Beer Sugar Liquors	R	Chlorine, Aqueous	R
Acrylic Acid	R	Benzaldehyde	R	Chlorinated Water 10 PPM	R
Acrylonitrile	R	Benzene	C	Chlorinated Water Sat'd	R
Adenine, 6-aminopurine	R	Benzene Sulfonic Acid	R	Chloroacetic Acid	R
Adenosine Triphosphate	R	Benzoic Acid	R	Chloroacetyl Chloride	---
Adipic Acid	R	Benzyl Alcohol	R	Chlorobenzene	N
Agarose	R	Bismuth Carbonate	R	Chlorobenzyl Chloride	N
Alizarin stain Mordant Red 11	R	Biuret	R	Chloroform	N
Alizarin Red S Mordant Red 3	R	Black Liquor	R	Chlorophenol Red	R
Alizarin Yellow R Mordant Orange 1	R	Bleach 5%	R	Chloropicrin	---
Allyl Alcohol	R	Bleach 12%	R	Chlorosulfonic Acid	R
Allyl Chloride	N	Blood	R	Chromic Acid 10%	R
Aluminum Acetate	R	Borax	R	Chromic Acid 30%	R
Aluminum Ammonium	R	Boric Acid	R	Chromic Acid 40%	R
Aluminum Chloride	R	Brake Fluid	---	Chromic Acid 50%	C
Aluminum Fluoride	R	Brine	R	Chromium	R
Aluminum Hydroxide	R	Brilliant Blue G-250	R	Chromium Tetroxide	R
Aluminum Nitrate	R	Brilliant Blue R-250	R	Citric Acid	R
Aluminum Oxychloride	R	Brilliant Cresyl Blue	R	Clayton Yellow	R
Aluminum Potassium	R	Brilliant Green	R	Coconut Oil	C
Aluminum Potassium Sulfate, Alum	R	Bromcresal Green	R	Coffee	R
Aluminum Sulfate	R	Bromcresal purple	R	Congo Red solution	R
Ammonia Anhydrous	R	Bromic Acid	R	Copper Acetate	R
Ammonia Gas	R	Bromine Liquid	R	Copper Carbonate	R
Ammonia Liquid	R	Bromine Vapor	R	Copper Chloride	R
Ammonia Acetate	R	Bromine Water	R	Copper Cyanide	R
Ammonium Bicarbonate	R	Bromotoluene	---	Copper Fluoride	R
Ammonium Bifluoride	R	Bromphenol Blue	R	Copper Nitrate	R
Ammonium Bisulfide	R	Bromthymol Blue	R	Copper Sulfate	R
Ammonium Bromide	R	Butadiene	R	Corn Oil	C
Ammonium Carbonate	R	Butane	R	Corn Syrup	R
Ammonium Chloride	R	Butyl Acetate	C	Cottonseed Oil	C
Ammonium Citrate	R	Butyl Alcohol	C	m-Cresal Purple	R
Ammonium Dichromate	R	Butyl Cellosolve	R	Cresal Red	R
Ammonium Dihydrogen Phosphate	R	n-Butyl Chloride	---	Creosote	N
Ammonium Ferric Sulfate	R	Butylene (C)	---	Cresol	N
Ammonium Ferrous Sulfate	R	Butyl Phenol	C	Cresylic Acid	R
Ammonium Fluoride 10%	R	Butyl Phthalate	---	Croton Aldehyde	R
Ammonium Fluoride 25%	R	Butyl Stearate	---	Crude Oil	R
Ammonium Hydroxide 10% - 28%	R	Butynediol	---	Cumene	C
Ammonium Hydroxide 100%	R	Butyric Acid	R	Cupric Chloride	R
Ammonium Iodide	R	C		Cupric Fluoride	R
Ammonium Nitrate	R	Cadium Cyanide	R	Cupric Nitrate	R
Ammonium Persulfate	R	Calcium Acetate	R	Cupric Sulfate	R
Ammonium Phosphate Monbasic/Dibasic	R	Calcium Bisulfide	R	Cuprous Chloride	R
Ammonium Sulfate	R	Calcium Bisulfate	R	Cyclohexane	R
Ammonium Sulfide	R	Calcium Carbonate	R	Cyclohexanol	R
Ammonium Sulfite	R	Calcium Chlorate	R	Cyclohexanone	R
Ammonium Thiocyanate	R	Calcium Chloride	R	D	
Amyl Acetate	C	Calcium Fluoride	R	Decahydronaphthalene	R
Amyl Alcohol 1%	R	Calcium Hydroxide	R	Detergents	R
Amyl Alcohol > 1%	C	Calcium Hypochlorite	R	Dextrin	R
n-Amyl Chloride	C	Calcium Nitrate	R	Dextrose	R
Aniline	C	Calcium Oxide	R	Diacetone Alcohol	R
Aniline Chlorohydrate	C	Calcium Sulfate	R	Diastase of malt	R
Aniline Hydrochloride	C	Camphor	---	Dibutoxyethyl Phthalate	N
Antraquinone	R	Cane Sugar Liquors	R	Dibutyl Ether	R
Antraquinone Sulfonic Acid	R	Caprylic Acid	---	Dibutyl Phthalate	N
Antimony Trichloride	R	Carbitol	---	Dibutyl Sebacate	N
Aqua Regia	R	Carbolic Acid	R	Dichlorobenzene	R
Argon	---	Carbon Dioxide Dry	R	Dichloroethylene	N
				2,6 — Dichloroindophenal	R

LabWaste® Technical CPVC Drainage System Chemical Resistance



CHEMICAL	RATING	CHEMICAL	RATING	CHEMICAL	RATING
Diesel Fuels	R	H		M	
Diethylamine	R	Heptane (Type 1)	R	Magnesium Acetate	R
Diethyl Cellosolve	R	n-Hexane	R	Magnesium Bromide	R
Diethyl Ether	R	Hexamethylenediamine	R	Magnesium Carbonate	R
Diglycolic Acid	R	Hexanoltertiary	R	Magnesium Chloride	R
Dimethylamine	R	Hydraulic Oil	---	Magnesium Citrate	R
Dimethyl Formamide	R	Hydrazine	R	Magnesium Fluoride	---
Dimethylhydrazine	R	Hydrobromic Acid 20%	R	Magnesium Hydroxide	R
Dimethyl Phthalate	N	Hydrobromic Acid 50%	R	Magnesium Nitrate	R
Dimethyl Sulfoxide	R	Hydrochloric Acid 10%	R	Magnesium Oxide	---
Diocetyl Phthalate	N	Hydrochloric Acid 30%	R	Magnesium Sulfate	R
Dodecyl Alcohol	R	Hydrocyanic Acid	R	Malachite Green	R
Dodecyl Sulfate	R	Hydrofluoric Acid Dilute	R	Maleic Acid	R
Dioxane	R	Hydrofluoric Acid 30%	R	Malic Acid	R
Diphenyl Oxide	---	Hydrofluoric Acid 50%	R	Maltose	R
Disodium Phosphate	R	Hydrofluoric Acid 100%	R	Manganese Chloride	R
Drierite	R	Hydrofluosilic Acid 50%	R	Manganese Nitrate	R
E		Hydrogen	R	Manganese Sulfate	R
Eosin Y	R	Hydrogen Cyanide	R	Menthol	R
Eriochrome Black T	R	Hydrogen Fluoride	C	Mercuric Chloride	R
Ether	R	Hydrogen Peroxide 50%	R	Mercuric Cyanide	R
Ethyl Acetate	R	Hydrogen Peroxide 90%	R	Mercuric Sulfate	R
Ethyl Acetoacetate	R	Hydrogen Phosphide	R	Mercurous Nitrate	R
Ethyl Acrylate	R	Hydrogen Sulfide Dry	R	Mercury	R
Ethyl Alcohol	R	Hydrogen Sulfide Wet	R	Methane	R
Ethyl Benzene	C	Hydrogen Sulfide, aqueous	R	Methanol	R
Ethyl Chloride	N	Hydroquinone, aqueous	R	DL-methionine	R
Ethyl Chloroacetate	N	Hydroxylamine Hydrochloride	R	Methoxyethyl Oleate	---
Ethylene Bromide	N	Hydroxylamine Sulfate	R	Methyl Acetate	R
Ethylene Chloride	N	Hypochlorous Acid	R	Methyl Acetone	R
Ethylene Chlorohydrin	N	I		Methyl Acrylate	---
Ethylenediamine	R	Indigo Carmine	R	Methyl Amine	R
Ethylene Dichloride	N	Inks	R	Methyl Bromide	N
Ethylene Oxide	R	Iodine	R	Methyl Cellosolve	R
Ethyl Ether	R	Iodine solution, Lugol's	R	Methyl Cellulose	R
Ethyl Formate	R	Iron Phosphate	---	Methyl Chloride	N
Ethylene Glycol	C	Isobutane	C	Methyl Chloroform	N
2-Ethylhexanol	R	Isobutyl Alcohol	R	Methyl Ethyl Ketone	R
Ethyl Mercaptan	R	Isocetane	R	Methyl Formate	R
Ethyl Oxalate	R	Isopropyl Acetate	R	Methyl Green	R
F		Isopropyl Alcohol	R	Methyl Isobutyl Carbinol	R
Fast Green FCF	R	Isopropyl Chloride	N	Methyl Isobutyl Ketone	R
Fatty Acids	R	Isopropyl Ether	R	Methyl Isopropyl Ketone	R
Fehlings solution A	R	Isophorone	R	Methyl Methacrylate	R
Fehlings solution B	R	J		Methyl Red	R
Ferric Ammonium Sulfate	R	Janus Green	R	Methyl Sulfate	R
Ferric Chloride	R	JP-3 Fuel	R	Methyl Violet-2B	R
Ferric Hydroxide	R	JP-4 Fuel	R	Methyl Violet-6B	R
Ferric Nitrate	R	JP-5 Fuel	R	Methylene Blue	R
Ferric Sulfate	R	JP-6 Fuel	R	Methylene Bromide	N
Ferrous Chloride	R	K		Methylene Chloride	N
Ferrous Hydroxide	R	Kerosene	R	Methylene Chlorobromide	N
Ferrous Nitrate	R	Ketchup	R	Methylene Iodine	N
Ferrous Sulfate	R	Kraft Liquors	R	Methylsulfuric Acid	R
Fish Oil	R	L		Milk	R
Fluoboric Acid	R	Lactic Acid 25%	R	Mineral Oil	R
Fluorine Gas (Dry)	R	Lactic Acid 80%	R	Molasses	R
Fluorine Gas Wet	R	Lactose	R	Monochloroacetic Acid	R
Fluosilicic Acid 30%	R	Lard Oil	C	Monochlorobenzene	N
Fluosilicic Acid 50%	R	Latex	---	Monoethanolamine	R
Formaldehyde Dilute	R	Lauric Acid	R	Monosodium Glutamate	R
Formaldehyde 35%	R	Lauryl Chloride	R	Motor Oil	R
Formaldehyde 37%	R	Lead Acetate	R	Morpholine	R
Formaldehyde 50%	C	Lead Chloride	R	N	
Formic Acid	R	Lead Nitrate	R	Naphtha	R
Freon	R	Lead Sulfate	R	Naphthalene	C
Freon 12	R	Lemon Oil	R	Natural Gas	R
Freon 21	---	Ligroin	R	Neutral Red	R
Freon 22	R	Limonene	R	Nickel Acetate	R
Freon113	C	Lime Slurry	R	Nickel Ammonium Sulfate ---	---
Freon114	---	Lime Sulfur	R	Nickel Chloride	R
Fructose	R	Linoleic Acid	C	Nickel Nitrate	R
Furfural	R	Linoleic Oil	---	Nickel Sulfate	R
G		Linseed Oil	C	Nicotine	R
Gallic Acid	R	Liqueurs	R	Nicotinic Acid	R
Gasoline	R	Lithium Bromide	R	Nitric Acid 10%	R
Gasohol	R	Lithium Carbonate	R	Nitric Acid 30%	R
Gelatin	R	Lithium Chloride	R	Nitric Acid 40%	R
Glauber's Salt	---	Lithium Hydroxide 50%	R	Nitric Acid 50%	R
Glucose	R	Lithium Nitrate	R	Nitric Acid 70%	R
Glue, PVA	R	Lithium Sulfate	R	Nitric Acid 100%	R
Glutathione	R	Lubricating Oil #1	R	Nitrobenzene	N
Glycerine	R	Lubricating Oil #2	R	Nitroethane	C
Glycine	R	Lubricating Oil #3	R	Nitrogen Gas	---
Glycogen	R	Ludox	---	Nitroglycerine	C
Glycol	C	Luminol 3-amino Phthalhydrazide	R	Nitroglycol	---
Glycol Amine	---	DL-lysine Hydrochloride	R	Nitromethane	C
Glycolic Acid	R	Lysozyme	R	Nitrous Acid	R
Glyoxal	R			Nitrous Oxide	R
Grape Sugar	R			O	
Grease	---			n-Octane	C
Green Liquor	R			Octanol	R
				OleioAcid	R



LabWaste® Technical

CPVC Drainage System Chemical Resistance

CHEMICAL	RATING	CHEMICAL	RATING	CHEMICAL	RATING
Oleum	R	Potassium Sulfite	R	Strontium Chloride	R
Olive Oil	C	Potassium Thiocyanate	R	Styrene	N
Orange G - acid orange 10	R	Propane	R	Succinic Acid	R
Orange IV - acid orange 5	R	Propargyl Alcohol	R	Sugar	R
Orcinol	R	Propionic Acid	R	Sulfamic Acid	R
Osmium Tetroxide	R	Propyl Acetate	---	Sulfate Liquors	R
Oxalic Acid	R	Propyl Alcohol	R	Sulfite Liquors	R
Oxygen Gas	R	N-Propyl Bromide	---	Sulfur	R
Ozone	R	Propylene Dichloride	N	Sulfur Chloride	R
Ozonized Water	R	Propylene Glycol	C	Sulfur Dioxide Gas Dry	R
P		Propylene Oxide	R	Sulfur Dioxide Gas Wet	R
Palm Oil	R	Pyridine	R	Sulfur Trioxide Gas Dry	---
Palmitic Acid 10%	R	Pyrogalllic Acid	R	Sulfur Trioxide Gas	N
Palmitic Acid 70%	R	Pyrrrole	R	Sulfuric Acid Up to 30%	R
Pancreatin	R	Q		Sulfuric Acid 50%	R
Papain	R	Quinine Sulfate	R	Sulfuric Acid 60%	R
Paraffin	R	Quinine Chloride Dihydrate	R	Sulfuric Acid 70%	R
Peanut Oil	C	Quinone	---	Sulfuric Acid 80%	R
Pectin	C	R		Sulfuric Acid 90%	R
n-Pentane	R	Rayon Coagulating Bath	R	Sulfuric Acid 93%	R
Pepsin	R	Rennin	R	Sulfuric Acid 94%	R
Peracetic Acid	R	Resazurin	R	Sulfuric Acid 95%	R
Perchloric Acid 15%	R	Rings Solution	R	Sulfuric Acid 96%	R
Perchloric Acid 70%	R	Rose Bengal Acid Red 94	R	Sulfuric Acid 98%	R
Perchloroethylene	C	S		Sulfuric Acid 100%	R
Periodic Acid	R	Safranin O	R	Sulfurous Acid	R
Perphosphate	R	Salicylaldehyde	N	T	
Phenol	R	Salicylic Acid	R	Tall Oil	R
Phenolphthalein	R	Selenic Acid, Aq.	R	Tannic Acid	R
Phenyl Salicylate	R	Silicic Acid	R	Tanning Liquors	R
Phenylhydrazine	C	Silicone Oil	R	Tar	C
Phosphate Esters	---	Silver Acetate	R	Tartaric Acid	R
Phosphoric Acid 10%	R	Silver Chloride	R	Terpineol	---
Phosphoric Acid 50%	R	Silver Cyanide	R	Tetrachloroethane	N
Phosphoric Acid 85%	R	Silver Nitrate	R	Tetrachloroethylene	N
Phosphoric Anhydride	R	Silver Sulfate	R	Tetracycline hydrochloride	R
Phosphorous (Red)	C	Soaps	R	Tetraethyl Lead	R
Phosphorous (Yellow)	C	Sodium Acetate	R	Tetrahydrofuran	R
Phosphorous Pentoxide	R	Sodium Alum	R	Tetralin	N
Phosphorous Trichloride	R	Sodium Aluminate	R	Thiamine Hydrochloride	R
Photographic Solutions	R	Sodium Arsenate	R	Thionin	R
Phthalic Acid	R	Sodium Benzoate	R	Thionyl Chloride	R
Picric Acid	R	Sodium Bicarbonate	R	Thymol	R
Pine Oil	C	Sodium Bichromate	R	Titanium Dioxide	R
Plating Solutions Brass	R	Sodium Bisulfate	R	Titanium Tetrachloride	R
Plating Solutions Cadmium	R	Sodium Bisulfite	R	Toluene	C
Plating Solutions Chrome	R	Sodium Borate	R	Tomato Juice	R
Plating Solutions Copper	R	Sodium Bromide	R	Transformer Oil	R
Plating Solutions Gold	R	Sodium Carbonate	R	Transformer Oil DTE/30	R
Plating Solutions Lead	R	Sodium Chlorate	R	Tributyl Citrate	---
Plating Solutions Nickel	R	Sodium Chloride	R	Tributyl Phosphate	R
Plating Solutions Rhodium	R	Sodium Chlorite	R	Trichloroacetic Acid	R
Plating Solutions Silver	R	Sodium Chromate	R	Trichloroethylene	N
Plating Solutions Tin	R	Sodium Citrate	R	Triethanolamine	R
Plating Solutions Zinc	R	Sodium Cyanide	R	Triethylamine	R
Polyvinyl Acetate	---	Sodium Dichromate	R	Trimethylpropane	R
Polyvinyl Alcohol	R	Sodium Diphenylamine Sulfonate	R	Trisodium Phosphate	R
Potash	R	Sodium Dithionite	R	Trypsin	R
Potassium Acetate	R	Sodium Ferricyanide	R	Tung Oil	C
Potassium Alum	R	Sodium Ferrocyanide	R	Turpentine	C
Potassium Aluminum	R	Sodium Fluoride	R	U	
Potassium Bicarbonate	R	Sodium Hexametaphosphate	R	Urea	R
Potassium Bichromate	R	Sodium Hydroxide 15%	R	Urease	R
Potassium Bisulfate	R	Sodium Hydroxide 30%	R	Urine	R
Potassium Bitartrate	R	Sodium Hydroxide 50%	R	V	
Potassium Borate	R	Sodium Hydroxide 70%	R	Varnish	---
Potassium Bromate	R	Sodium Hypochlorite	R	Vaseline	C
Potassium Bromide	R	Sodium Iodate	R	Vegetable Oil	C
Potassium Carbonate	R	Sodium Iodide	R	Vinegar	R
Potassium Chlorate	R	Sodium Metabisulfite	R	Vinyl Acetate	R
Potassium Chloride	R	Sodium Metaphosphate	R	W	
Potassium Chromate	R	Sodium Nitrate	R	Water, Acid Mine	R
Potassium Citrate	R	Sodium Nitrite	R	Water, Deionized	R
Potassium Cyanide	R	Sodium Palmirate	R	Water, Distilled	R
Potassium Dichromate	R	Sodium Perborate	R	Water, Potable	R
Potassium Ethyl Xanthate	---	Sodium Perchlorate	R	Water, Salt	R
Potassium Ferricyanide	R	Sodium Periodate	R	Water, Sea	R
Potassium Ferrocyanide	R	Sodium Peroxide	R	Water, Soft	R
Potassium Fluoride	R	Sodium Phosphate Acid	R	Water, Waste	R
Potassium Hydrogen Phosphate	R	Sodium Phosphate Alkaline	R	Whiskey	R
Potassium Hydrogen Phthalate	R	Sodium Phosphate Neutral	R	White Liquor	R
Potassium Hydroxide	R	Sodium Propionate	R	Wine	R
Potassium Hyprochlorite	R	Sodium Silicate	R	X	
Potassium Iodate	R	Sodium Sulfate	R	Xylene	C
Potassium Iodide	R	Sodium Sulfite	R	Z	
Potassium Nitrate	R	Sodium	R	Zinc Acetate	R
Potassium Nitrite	R	Sodium Thioussulphate	R	Zinc Carbonate	R
Potassium Perborate	R	Sour Crude Oil	R	Zinc Chloride	R
Potassium Perchlorate	R	Soybean Oil	C	Zinc Nitrate	R
Potassium Permanganate 10%	R	Stannic Chloride	R	Zinc Stearate	R
Potassium Permanganate 25%	R	Stannous Chloride	R	Zinc Sulfate	R
Potassium Persulfate	R	Stannous Sulfate	R		
Potassium Phosphate	R	Starch	R		
Potassium Sodium Tartrate	R	Stearic Acid	R		
Potassium Sulfate	R	Streptomycin Sulfate	R		
Potassium Sulfide	R	Strontium Bromide	R		