



CHEMICAL RESISTANCE DATA FOR LabWaste™ CPVC DRAINAGE SYSTEM

Chemical Resistance Tables

The following Chemical Data for **LabWaste™** CPVC Drainage System 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. This is an integral requirement of Prudent Laboratory Practices, regardless of piping material used. For use of **LabWaste™** CPVC products in continuous or dedicated chemical waste drainage systems, chemical resistance data for pressure applications must be followed (see preceding Chemical Resistance Data for Pressure Piping table).

Resistance Rating Codes

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

IMPORTANT NOTE: Chemical Resistance data is provide 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 might 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		Ammonium Nitrate	R	Bromphenol Blue	R
Acacia, Gum Arabic	R	Ammonium Persulfate	R	Bromthymol Blue	R
Acetaldehyde	R	Ammonium Phosphate	R	Butadiene	R
Acetamide	R	Monobasic/Dibasic	R	Butane	R
Acetic Acid Vapor 25%	R	Ammonium Sulfate	R	Butyl Acetate	C
Acetic Acid 60%	R	Ammonium Sulfide	R	Butyl Alcohol	C
Acetic Acid 85%	R	Ammonium Sulfite	R	Butyl Cellosolve	R
Acetic Acid Glacial	R	Ammonium Thiocyanate	R	n-Butyl Chloride	---
Acetic Anhydride	R	Amyl Acetate	C	Butylene (C)	---
Acetone	R	Amyl Alcohol 1%	R	Butyl Phenol	C
Acetophenone	C	Amyl Alcohol >1%	C	Butyl Phthalate	---
Acetyl Chloride	R	n-Amyl Chloride	C	Butyl Stearate	---
Acetylene	N	Aniline	C	Butynediol	---
Acetylnitrile	R	Aniline Chlorohydrate	C	Butyric Acid	R
Acetylsalicylic acid, aspirin	R	Aniline Hydrochloride	C	C	
Acrylic Acid	R	Anthraquinone	R	Cadmium Cyanide	R
Acrylonitrile	R	Anthraquinone Sulfonic Acid	R	Calcium Acetate	R
Adenine, 6-aminopurine	R	Antimony Trichloride	R	Calcium Bisulfide	R
Adenosine Triphosphate	R	Aqua Regia	R	Calcium Bisulfate	R
Adipic Acid	R	Argon	---	Calcium Carbonate	R
Agarose	R	Arsenic Acid	R	Calcium Chlorate	R
Alizarin stain	R	Aryl Sulfonic Acid	R	Calcium Chloride	R
Mordant Red 11	R	Asorbic Acid	R	Calcium Fluoride	R
Alizarin Red S	R	L-Asparagine	R	Calcium Hydroxide	R
Mordant Red 3	R	Asphalt	N	Calcium Hypochlorite	R
Alizarin Yellow R	R	B		Calcium Nitrate	R
Mordant Orange 1	R	Barium Acetate	R	Calcium Oxide	R
Allyl Alcohol	R	Barium Carbonate	R	Calcium Sulfate	R
Allyl Chloride	N	Barium Chloride	R	Camphor	---
Aluminum Acetate	R	Barium Hydroxide	R	Cane Sugar Liquors	R
Aluminum Ammonium	R	Barium Nitrate	R	Caprylic Acid	---
Aluminum Chloride	R	Barium Sulfate	R	Carbitol	---
Aluminum Fluoride	R	Barium Sulfide	R	Carbolic Acid	R
Aluminum Hydroxide	R	Beer	R	Carbon Dioxide Dry	R
Aluminum Nitrate	R	Beer Sugar Liquors	R	Carbon Dioxide Wet	R
Aluminum Oxychloride	R	Benzaldehyde	R	Carbon Disulfide	C
Aluminum Potassium	R	Benzene	C	Carbon Monoxide	R
Aluminum Potassium Sulfate, Alum	R	Benzene Sulfonic Acid	R	Carbon Tetrachloride	N
Aluminum Sulfate	R	Benzoic Acid	R	Carbonic Acid	R
Ammonia Anhydrous	R	Benzyl Alcohol	R	Castor Oil	C
Ammonia Gas	R	Bismuth Carbonate	R	Caustic Polish	R
Ammonia Liquid	R	Biuret	R	Caustic Soda	R
Ammonia Acetate	R	Black Liquor	R	Cellosolve	C
Ammonium Bicarbonate	R	Bleach 5%	R	Cellosolve Acetate	R
Ammonium Bifluoride	R	Bleach 12%	R	Chloral Hydrate	R
Ammonium Bisulfide	R	Blood	R	Chloramine	R
Ammonium Bromide	R	Borax	R	Chloric Acid	R
Ammonium Carbonate	R	Boric Acid	R	Chloric Acid 20%	R
Ammonium Chloride	R	Brake Fluid	---	Chlorine, Aqueous	R
Ammonium Citrate	R	Brine	R	Chlorinated Water 10 PPM	R
Ammonium Dichromate	R	Brilliant Blue G-250	R	Chlorinated Water Sat'd	R
Ammonium Dihydrogen Phosphate	R	Brilliant Blue R-250	R	Chloroacetic Acid	---
Ammonium Ferric Sulfate	R	Brilliant Cresyl Blue	R	Chloroacetyl Chloride	R
Ammonium Ferrous Sulfate	R	Brilliant Green	R	Chlorobenzene	N
Ammonium Fluoride 10%	R	Bromocresal Green	R	Chlorobenzyl Chloride	N
Ammonium Fluoride 25%	R	Bromocresal purple	R	Chloroform	N
Ammonium Hydroxide	R	Bromic Acid	R	Chlorophenol Red	R
10% - 28%	R	Bromine Liquid	R	Chloropicrin	---
Ammonium Hydroxide	R	Bromine Vapor	R	Chlorosulfonic Acid	R
100%	R	Bromine Water	R	Chromic Acid 10%	R
Ammonium Iodide	R	Bromotoluene	---	Chromic Acid 30%	R
				Chromic Acid 40%	R

CHEMICAL RESISTANCE DATA FOR LabWaste™ CPVC DRAINAGE SYSTEM



CHEMICAL	RATING	CHEMICAL	RATING	CHEMICAL	RATING
Chromic Acid 50%	C	Ethyl Ether	R	Hydrogen Sulfide Dry	R
Chromium	R	Ethyl Formate	R	Hydrogen Sulfide Wet	R
Chromium Tetroxide	R	Ethylene Glycol	R	Hydrogen Sulfide, aqueous	R
Citric Acid	R	2-Ethylhexanol	R	Hydroquinone, aqueous	R
Clayton Yellow	R	Ethyl Mercaptan	R	Hydroxylamine Hydrochloride	R
Coconut Oil	C	Ethyl Oxalate	R	Hydroxylamine Sulfate	R
Coffee	R			Hypochlorous Acid	R
Congo Red solution	R				
Copper Acetate	R	F		I	
Copper Carbonate	R	Fast Green FCF	R	Indigo Carmine	R
Copper Chloride	R	Fatty Acids	R	Inks	R
Copper Cyanide	R	Fehlings solution A	R	Iodine	R
Copper Fluoride	R	Fehlings solution B	R	Iodine solution, Lugol's	R
Copper Nitrate	R	Ferric Ammonium Sulfate	R	Iron Phosphate	---
Copper Sulfate	R	Ferric Chloride	R	Isobutane	C
Corn Oil	C	Ferric Hydroxide	R	Isobutyl Alcohol	R
Corn Syrup	R	Ferric Nitrate	R	Isocetane	R
Cottonseed Oil	C	Ferric Sulfate	R	Isopropyl Acetate	R
m-Cresol Purple	R	Ferrous Chloride	R	Isopropyl Alcohol	R
Cresol Red	R	Ferrous Hydroxide	R	Isopropyl Chloride	N
Creosote	N	Ferrous Nitrate	R	Isopropyl Ether	R
Cresol	N	Ferrous Sulfate	R	Isophorone	R
Cresylic Acid	R	Fish Oil	R		
Croton Aldehyde	R	Fluoboric Acid	R	J	
Crude Oil	R	Fluorine Gas (Dry)	R	Janus Green	R
Cumene	C	Fluorine Gas (Wet)	R	JP-3 Fuel	R
Cupric Chloride	R	Fluosilicic Acid 30%	R	JP-4 Fuel	R
Cupric Fluoride	R	Fluosilicic Acid 50%	R	JP-5 Fuel	R
Cupric Nitrate	R	Flormaldehyde Dilute	R	JP-6 Fuel	R
Cupric Sulfate	R	Flormaldehyde 35%	R		
Cuprous Chloride	R	Flormaldehyde 37%	R	K	
Cyclohexane	R	Flormaldehyde 50%	C	Kerosene	R
Cyclohexanol	R	Formic Acid	R	Ketchup	R
Cyclohexanone	R	Freon	R	Kraft Liquors	R
		Freon 12	R		
D		Freon 21	---	L	
Decahydronaphthalene	R	Freon 22	R	Lactic Acid 25%	R
Detergents	R	Freon 113	C	Lactic Acid 80%	R
Dextrin	R	Freon 114	---	Lactose	R
Dextrose	R	Fructose	R	Lard Oil	---
Diacetone Alcohol	R	Furfural	R	Latex	C
Diastase of malt	R			Lauric Acid	R
Dibutoxyethyl Phthalate	N	G		Lauryl Chloride	R
Dibutyl Ether	N	Gallic Acid	R	Lead Acetate	R
Dibutyl Phthalate	N	Gasoline	R	Lead Chloride	R
Dibutyl Sebacate	N	Gasohol	R	Lead Nitrate	R
Dichlorobenzene	R	Gelatin	---	Lead Sulfate	R
Dichloroethylene	N	Glauber's Salt	---	Lemon Oil	R
2,6 - Dichloroindophenal	R	Glucose	R	Ligroin	R
Diesel Fuels	R	Glue, PVA	R	Limonene	R
Diethylamine	R	Glutathione	R	Lime Slurry	R
Diethyl Cellosolve	R	Glycerine	R	Lime Sulfur	R
Diethyl Ether	R	Glycine	R	Linoleic Acid	C
Diglycolic Acid	R	Glycogen	R	Linoleic Oil	---
Dimethylamine	R	Glycol	C	Linseed Oil	C
Dimethyl Formamide	R	Glycol Amine	---	Liqueurs	R
Dimethylhydrazine	R	Glycolic Acid	R	Lithium Bromide	R
Dimethyl Phthalate	N	Glyoxal	R	Lithium Carbonate	R
Dimethyl Sulfoxide	R	Grape Sugar	R	Lithium Chloride	R
Diocetyl Phthalate	N	Grease	---	Lithium Hydroxide 50%	R
Dodecyl Alcohol	R	Green Liquor	R	Lithium Nitrate	R
Dodecyl Sulfate	R			Lithium Sulfate	R
Dioxane	R	H		Lubricating Oil #1	R
Diphenyl Oxide	---	Heptane (Type 1)	R	Lubricating Oil #2	R
Disodium Phosphate	R	n-Hexane	R	Lubricating Oil #3	R
Drierite	R	Hexamethylenediamine	R	Ludox	---
		Hexanol, Tertiary	R	Luminol 3-amino	---
E		Hydraulic Oil	---	Phthalhydrazide	R
Eosin Y	R	Hydrazine	R	DL-lysine Hydrochloride	R
Eriochrome Black T	R	Hydrobromic Acid 20%	R	Lysozyme	R
Ether	R	Hydrobromic Acid 50%	R		
Ethyl Acetate	R	Hydrochloric Acid 10%	R	M	
Ethyl Acetoacetate	R	Hydrochloric Acid 30%	R	Magnesium Acetate	R
Ethyl Acrylate	R	Hydrocyanic Acid	R	Magnesium Bromide	R
Ethyl Alcohol	R	Hydrofluoric Acid Dilute	R	Magnesium Carbonate	R
Ethyl Benzene	C	Hydrofluoric Acid 30%	R	Magnesium Chloride	R
Ethyl Chloride	N	Hydrofluoric Acid 50%	R	Magnesium Citrate	R
Ethyl Chloroacetate	N	Hydrofluoric Acid 100%	R	Magnesium Fluoride	---
Ethylene Bromide	N	Hydrofluosilicic Acid 50%	R	Magnesium Hydroxide	R
Ethylene Chloride	N	Hydrogen	R	Magnesium Nitrate	R
Ethylene Chlorohydrin	N	Hydrogen Cyanide	R	Magnesium Oxide	---
Ethylenediamine	R	Hydrogen Fluoride	C	Magnesium Sulfate	R
Ethylene Dichloride	N	Hydrogen Peroxide 50%	R	Malachite Green	R
Ethylene Glycol	C	Hydrogen Peroxide 90%	R		
Ethylene Oxide	R	Hydrogen Phosphide	R		



CHEMICAL RESISTANCE DATA FOR LabWaste™ CPVC DRAINAGE SYSTEM

CHEMICAL	RATING	CHEMICAL	RATING	CHEMICAL	RATING
Maleic Acid	R	Orange G - acid orange 10	R	Potassium Nitrate	R
Malic Acid	R	Orange IV - acid orange 5	R	Potassium Nitrite	R
Maltose	R	Orcinol	R	Potassium Perborate	R
Manganese Chloride	R	Osmium Tetroxide	R	Potassium Perchlorate	R
Manganese Nitrate	R	Oxalic Acid	R	Potassium Permanganate 10%	R
Manganese Sulfate	R	Oxygen Gas	R	Potassium Permanganate 25%	R
Menthol	R	Ozone	R	Potassium Persulfate	R
Mercuric Chloride	R	Ozonized Water	R	Potassium Phosphate	R
Mercuric Cyanide	R			Potassium Sodium Tartrate	R
Mercuric Sulfate	R	P		Potassium Sulfate	R
Mercurous Nitrate	R	Palm Oil	R	Potassium Sulfide	R
Mercury	R	Palmitic Acid 10%	R	Potassium Sulfite	R
Methane	R	Palmitic Acid 70%	R	Potassium Thiocyanate	R
Methanol	R	Pancreatin	R	Propane	R
DL-methionine	R	Papain	R	Propargyl Alcohol	R
Methoxyethyl Oleate	---	Paraffin	R	Propionic Acid	R
Methyl Acetate	R	Peanut Oil	C	Propyl Acetate	---
Methyl Acetone	R	Pectin	R	Propyl Alcohol	R
Methyl Acrylate	---	n-Pentane	C	N-Propyl Bromide	---
Methyl Amine	R	Pepsin	R	Propylene Dichloride	N
Methyl Bromide	N	Peracetic Acid	R	Propylene Glycol	R
Methyl Cellosolve	R	Perchloric Acid 15%	R	Propylene Oxide	R
Methyl Cellulose	R	Perchloric Acid 70%	R	Pyridine	R
Methyl Chloride	N	Perchloroethylene	C	Pyrogallol Acid	R
Methyl Chloroform	N	Periodic Acid	R	Pyrrrole	R
Methyl Ethyl Ketone	R	Perphosphate	R		
Methyl Fomate	R	Phenol	R	Q	
Methyl Green	R	Phenolphthalein	R	Quinine Sulfate	R
Methyl Isobutyl Carbinol	R	Phenyl Salicylate	R	Quinine Chloride Dihydrate	R
Methyl Isobutyl Ketone	R	Phenyldiazine	C	Quinone	---
Methyl Isopropyl Ketone	R	Phosphate Esters	---	R	
Methyl Methacrylate	R	Phosphoric Acid 10%	R	Rayon Coagulating Bath	R
Methyl Red	R	Phosphoric Acid 50%	R	Rennin	R
Methyl Sulfate	R	Phosphoric Acid 85%	R	Resazurin	R
Methyl Violet-2B	R	Phosphoric Anhydride	R	Ringers Solution	R
Methyl Violet-6B	R	Phosphorous (Red)	C	Rose Bengal Acid Red 94	R
Methylene Blue	R	Phosphorous (Yellow)	C		
Methylene Bromide	N	Phosphorous Pentoxide	R	S	
Methylene Chloride	N	Phosphorous Trichloride	R	Safranin O	R
Methylene Chlorobromide	N	Photographic Solutions	R	Salicylaldehyde	N
Methylene Iodine	N	Phthalic Acid	R	Salicylic Acid	R
Methylsulfuric Acid	R	Picric Acid	R	Selenic Acid, Aq.	R
Milk	R	Pine Oil	C	Silicic Acid	R
Mineral Oil	R	Plating Solutions Brass	R	Silicone Oil	R
Molasses	R	Plating Solutions Cadmium	R	Silver Acetate	R
Monochloroacetic Acid	R	Plating Solutions Chrome	R	Silver Chloride	R
Monochlorobenzene	N	Plating Solutions Copper	R	Silver Cyanide	R
Monoethanolamine	R	Plating Solutions Gold	R	Silver Nitrate	R
Monosodium Glutamate	R	Plating Solutions Lead	R	Silver Sulfate	R
Motor Oil	R	Plating Solutions Nickel	R	Soaps	R
Morpholine	R	Plating Solutions Rhodium	R	Sodium Acetate	R
	N	Plating Solutions Silver	R	Sodium Alum	R
Naphtha	R	Plating Solutions Tin	R	Sodium Aluminate	R
Naphthalene	C	Plating Solutions Zinc	R	Sodium Arsenate	R
Natural Gas	R	Polyvinyl Acetate	---	Sodium Benzoate	R
Neutral Red	R	Polyvinyl Alcohol	R	Sodium Bicarbonate	R
Nickel Acetate	R	Potash	R	Sodium Bichromate	R
Nickel Ammonium Sulfate	---	Potassium Acetate	R	Sodium Bisulfate	R
Nickel Chloride	R	Potassium Alum	R	Sodium Bisulfite	R
Nickel Nitrate	R	Potassium Aluminum	R	Sodium Borate	R
Nickel Sulfate	R	Potassium Bicarbonate	R	Sodium Bromide	R
Nicotine	R	Potassium Bichromate	R	Sodium Carbonate	R
Nicotinic Acid	R	Potassium Bisulfate	R	Sodium Chlorate	R
Nitric Acid 10%	R	Potassium Bitartrate	R	Sodium Chloride	R
Nitric Acid 30%	R	Potassium Borate	R	Sodium Chlorite	R
Nitric Acid 40%	R	Potassium Bromate	R	Sodium Chromate	R
Nitric Acid 50%	R	Potassium Bromide	R	Sodium Citrate	R
Nitric Acid 70%	R	Potassium Carbonate	R	Sodium Citrate	R
Nitric Acid 100%	R	Potassium Chlorate	R	Sodium Cyanide	R
Nitrobenzene	N	Potassium Chloride	R	Sodium Dichromate	R
Nitroethane	C	Potassium Chromate	R	Sodium Diphenylamine	
Nitrogen Gas	---	Potassium Citrate	R	Sulfonate	R
Nitroglycerine	C	Potassium Cyanide	R	Sodium Dithionite	R
Nitroglycol	---	Potassium Dichromate	R	Sodium Ferricyanide	R
Nitromethane	C	Potassium Ethyl Xanthate	---	Sodium Ferrocyanide	R
Nitrous Acid	R	Potassium Ferricyanide	R	Sodium Fluoride	R
Nitrous Oxide	R	Potassium Ferrocyanide	R	Sodium Hexametaphosphate	R
	O	Potassium Fluoride	R	Sodium Hydroxide 15%	R
n-Octane	C	Potassium Hydrogen Phosphate	R	Sodium Hydroxide 30%	R
Octanol	R	Potassium Hydrogen Phthalate	R	Sodium Hydroxide 50%	R
Oleic Acid	R	Potassium Hydroxide	R	Sodium Hydroxide 70%	R
Oleum	R	Potassium Hypochlorite	R	Sodium Hypochlorite	R
Olive Oil	C	Potassium Iodate	R	Sodium Iodate	R
		Potassium Iodide	R	Sodium Iodide	R
				Sodium Metabisulfite	R

CHEMICAL RESISTANCE DATA FOR LabWaste™ CPVC DRAINAGE SYSTEM



CHEMICAL	RATING
Sodium Metaphosphate	R
Sodium Nitrate	R
Sodium Nitrite	R
Sodium Palmitrate	R
Sodium Perborate	R
Sodium Perchlorate	R
Sodium Periodate	R
Sodium Peroxide	R
Sodium Phosphate Acid	R
Sodium Phosphate Alkaline	R
Sodium Phosphate Neutral	R
Sodium Propionate	R
Sodium Silicate	R
Sodium Sulfate	R
Sodium Sulfide	R
Sodium Sulfite	R
Sodium Thioulsulphate	R
Sour Crude Oil	R
Soybean Oil	C
Stannic Chloride	R
Stannous Chloride	R
Stannous Sulfate	R
Starch	R
Stearic Acid	R
Streptomycin Sulfate	R
Strontium Bromide	R
Strontium Chloride	R
Styrene	N
Succinic Acid	R
Sugar	R
Sulfamic Acid	R
Sulfate Liquors	R
Sulfite Liquors	R
Sulfur	R
Sulfur Chloride	R
Sulfur Dioxide Gas Dry	R
Sulfur Dioxide Gas Wet	R
Sulfur Trioxide Gas Dry	---
Sulfur Trioxide Gas Wet	N
Sulfuric Acid Up to 30%	R
Sulfuric Acid 50%	R
Sulfuric Acid 60%	R
Sulfuric Acid 70%	R
Sulfuric Acid 80%	R
Sulfuric Acid 90%	R
Sulfuric Acid 93%	R
Sulfuric Acid 94%	R
Sulfuric Acid 95%	R
Sulfuric Acid 96%	R
Sulfuric Acid 98%	R
Sulfuric Acid 100%	R
Sulfurous Acid	R
T	
Tall Oil	R
Tannic Acid	R
Tanning Liquors	R
Tar	C
Tartaric Acid	R
Terpineol	---
Tetrachloroethane	N
Tetrachloroethylene	N
Tetracycline hydrochloride	R
Tetraethyl Lead	R
Tetrahydrofuran	R
Tetralin	N
Thiamine Hydrochloride	R
Thionin	R
Thionyl Chloride	R
Thymol	R
Titanium Dioxide	R
Titanium Tetrachloride	R
Toluene	C
Tomato Juice	R
Transformer Oil	R
Transformer Oil DTE/30	R
Tributyl Citrate	---
Tributyl Phosphate	R
Trichloroacetic Acid	R
Trichloroethylene	N
Triethanolamine	R
Triethylamine	R
Trimethylpropane	R

CHEMICAL	RATING
Trisodium Phosphate	R
Trypsin	R
Tung Oil	C
Turpentine	C
U	
Urea	R
Urease	R
Urine	R
V	
Varnish	---
Vaseline	C
Vegetable Oil	C
Vinegar	R
Vinyl Acetate	R
W	
Water, Acid Mine	R
Water, Deionized	R
Water, Distilled	R
Water, Potable	R
Water, Salt	R
Water, Sea	R
Water, Soft	R
Water, Waste	R
Whiskey	R
White Liquor	R
Wine	R
X	
Xylene	C
Z	
Zinc Acetate	R
Zinc Carbonate	R
Zinc Chloride	R
Zinc Nitrate	R
Zinc Stearate	R
Zinc Sulfate	R