

Chemical Compatibility Rating for Carboy Materials

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Please test with application before use)*

	Polypropylene (PP)		High Density Polyethylene (HDPE)		Fluorinated Polyethylene (FLPE)		PFA (Teflon)		Polycarbonate (PC)		PETG/Co-Polyester (CP)		Polystyrene (PS)		Flexible Polyvinyl Chloride (PVC)		Platinum Cured Silicone	
	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C
1,4-Dioxane, pure	5	5	2	2	1	1	1	1	5	5	1	5	5	5	5	5	5	-
2,2,4-Trimethylpentane, pure	4	5	4	6	2	4	1	1	5	5	-	-	5	5	5	5	-	
2,4,6-Trinitrophenol, pure	5	5	6	6	5	5	1	1	5	5	-	-	2	4	5	5	-	
2-Methoxyethanol, pure	2	4	1	1	1	1	1	1	5	5	4	5	5	5	4	5	-	
2-Propanol, pure	1	1	1	1	1	1	1	1	1	1	4	5	1	2	2	5	-	
Acetaldehyde, pure	2	5	2	4	2	4	1	1	5	5	5	5	5	5	5	5	2	
Acetamide, saturated	1	1	1	1	2	2	1	1	5	5	-	-	1	1	5	5	-	
Acetic Acid, 5%	1	1	1	1	1	1	1	1	1	2	4	5	1	2	1	2	2	
Acetic Acid, 50%	1	1	1	2	1	2	1	1	2	4	5	5	2	2	4	5	2	
Acetic Acid (Glacial)	1	2	2	2	2	2	1	1	5	5	5	5	4	5	5	5	4	
Acetic Anhydride, pure	2	4	4	4	4	4	1	1	5	5	-	-	5	5	5	5	5	
Acetone, pure	4	5	5	5	4	4	1	1	5	5	5	5	5	5	5	5	5	
Acetonitrile, pure	1	2	1	1	1	1	1	1	5	5	5	5	5	5	5	5	-	
Acetophenone, pure	4	5	4	4	2	2	1	1	5	5	-	-	5	5	5	5	5	
Acrylonitrile	4	5	1	1	1	1	1	1	5	5	-	-	5	5	5	5	5	
Adipic Acid, pure	1	1	1	1	1	1	1	1	1	1	-	-	1	1	1	4	-	
Alanine, pure	1	1	1	1	1	1	1	1	1	1	-	-	1	1	1	2	-	
Allyl Alcohol	1	1	1	1	1	1	1	1	2	2	1	5	2	4	2	5	-	
Aluminum Chloride	1	1	1	1	1	1	1	1	2	1	2	1	1	2	2	2	2	
Aluminum Hydroxide	1	2	1	1	1	1	1	1	4	5	1	2	2	2	1	2	1	
Aluminum Salts	1	1	1	1	1	1	1	1	1	2	1	2	1	2	1	2	-	
Amino Acids, pure	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	-	
Ammonia, 25%	1	1	1	1	4	4	1	1	5	5	1	5	1	2	2	4	4	
Ammonia, pure	1	1	1	1	4	4	1	1	5	5	-	-	1	2	2	4	4	
Ammonium Acetate, saturated	1	1	1	1	1	1	1	1	2	2	-	-	1	1	2	5	-	
Ammonium Chloride, pure	1	1	1	1	1	1	4	4	1	2	1	1	1	1	1	2	4	
Ammonium Glycolate, pure	1	2	1	1	1	1	1	1	2	4	-	-	1	1	2	4	-	
Ammonium Hydroxide, 5%	1	1	1	1	4	4	1	1	4	5	4	5	1	4	1	2	1	
Ammonium Hydroxide, 30%	1	2	1	1	4	4	1	1	5	5	5	5	2	4	2	4	1	
Ammonium Oxalate, pure	1	2	1	1	1	1	1	1	1	1	-	-	1	1	2	5	-	
Ammonium Salts	1	1	1	1	1	1	1	1	2	2	-	-	2	2	1	2	-	
Amyl Alcohol, pure	1	4	1	1	1	1	1	1	2	4	-	-	2	4	2	5	5	
Amyl Chloride, pure	5	6	4	5	2	4	1	1	5	5	-	-	5	5	5	5	5	
Aniline, pure	1	2	2	4	2	4	1	1	5	5	-	-	5	5	5	5	5	
Aqua Regia, pure	5	6	5	5	5	5	1	1	5	5	5	5	5	5	5	5	5	
Arsenic Acid, pure	1	1	1	1	1	1	1	1	1	1	-	-	1	1	2	2	1	
Benzaldehyde, pure	1	2	2	5	2	5	1	1	5	5	-	-	5	5	5	5	4	
Benzenamine, pure	1	2	2	4	2	4	1	1	5	5	-	-	5	5	5	5	-	
Benzene, pure	5	5	5	5	4	4	1	1	5	5	5	5	5	5	5	5	5	
Benzoic Acid, saturated	1	2	1	1	1	1	1	1	1	2	1	-	2	2	1	2	1	
Benzol, pure	5	5	5	5	4	4	1	1	5	5	5	5	5	5	5	5	5	
Benzyl Acetate, pure	1	2	1	1	1	1	1	1	4	5	-	-	5	5	5	5	-	
Benzyl Alcohol, pure	2	2	4	5	2	2	1	1	5	5	5	5	5	5	4	5	-	
Boric Acid, pure	1	1	1	1	1	1	1	1	1	5	5	1	1	2	2	1	1	
Bromine, pure	5	6	4	5	4	5	1	1	4	5	-	-	5	5	5	5	5	
Bromobenzene, pure	5	6	5	6	4	4	1	1	5	5	-	-	5	5	5	5	-	
Bromoform, pure	5	5	5	5	4	4	1	1	5	5	-	-	5	5	5	5	-	
Butadiene, pure	5	6	4	5	2	4	1	1	5	5	-	-	5	5	5	5	5	
Butyl Acetate, pure	4	5	2	4	1	2	1	1	5	5	1	-	5	5	5	5	5	
Butyl Chloride, pure	5	5	5	5	4	4	1	1	5	5	-	-	5	5	5	5	-	
Butyric Acid, pure	5	5	4	5	4	5	1	1	5	5	-	-	5	5	5	5	5	
Calcium Chloride	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	
Calcium Hydroxide, concentrated	1	1	1	1	4	4	1	1	5	5	-	-	2	2	1	2	1	
Calcium Hypochlorite, saturated	1	1	1	1	4	4	1	1	4	5	4	-	1	2	4	5	4	
Carbazole, pure	1	1	1	1	1	1	1	1	5	5	-	-	1	1	5	5	-	
Carbon Disulfide, pure	5	5	5	5	5	5	1	1	5	5	-	-	5	5	5	5	5	
Carbon Tetrachloride, pure	2	4	2	4	1	2	1	1	5	5	5	5	5	5	5	5	5	
Caustic Potash, 30%	1	1	1	1	4	4	1	1	5	5	5	5	2	2	2	5	-	
Caustic Potash, 50%	1	1	1	1	4	4	1	1	5	5	5	5	1	2	4	5	-	
Caustic Potash, concentrated	1	1	1	1	4	4	1	1	5	5	5	5	2	2	4	5	-	
Caustic Soda, 1%	1	1	4	4	5	5	1	1	4	5	2	-	1	1	1	4	1	
Caustic Soda, 50%	1	1	2	4	5	5	1	1	5	5	5	5	1	2	4	5	1	
Caustic Soda, concentrated	1	1	2	4	5	5	1	1	5	5	5	5	1	2	4	5	-	
Cedarwood Oil, pure	5	5	4	5	-	-	1	1	2	4	5	5	5	5	5	5	-	
Cellosolve Acetate, pure	4	5	1	1	1	1	1	1	4	5	-	-	5	5	5	5	5	
Chlorine, water solution	4	5	2	2	2	2	1	1	2	4	-	-	4	5	1	2	-	
Chlorine, wet gas	4	5	2	4	2	4	1	1	2	4	5	5	5	5	4	5	5	

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	Polypropylene (PP)		High Density Polyethylene (HDPE)		Fluorinated Polyethylene (FLPE)		PFA (Teflon)		Polycarbonate (PC)		PETG/Co-Polyester (CP)		Polystyrene (PS)		Flexible Polyvinyl Chloride (PVC)		Platinum Cured Silicone	
	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C
Chlorine, Wet Gas, 10%	4	5	2	4	2	4	1	1	2	4	5	5	5	5	4	5	5	5
Chlorine, dry gas, 10%	4	5	1	4	1	4	1	1	1	2	-	-	5	5	1	2	5	5
Chloroacetic Acid, pure	1	2	1	1	1	1	1	1	4	5	5	5	2	5	5	5	-	-
Chlorobenzene, pure	5	5	5	5	4	4	1	1	5	5	1	5	5	5	5	5	5	5
Chloroform, pure	5	5	4	5	2	4	1	1	5	5	-	-	5	5	5	5	5	5
Chromic Acid, 10%	1	1	1	1	1	1	1	1	2	4	2	-	1	2	1	5	5	5
Chromic Acid, 20%	2	2	1	1	1	1	1	1	2	4	2	-	2	2	2	5	5	5
Chromic Acid, 50%	2	4	1	1	1	1	1	1	4	5	5	5	4	5	2	5	5	5
Chromic Acid: Sulfuric Acid Mixture, 96%	5	5	5	5	5	5	1	1	5	5	5	5	5	5	5	5	5	5
Cinnamon Oil, pure	5	5	5	5	-	-	1	1	2	4	-	-	5	5	5	5	-	-
Citric Acid, 10%	1	1	1	1	1	1	1	1	1	1	2	1	1	2	4	1	1	1
Citric Acid, 1M	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2	4	1	1
Copper Sulfate, pure	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1
Cresol, pure	2	4	4	5	2	2	1	1	5	5	-	-	4	5	5	5	5	5
Cyclohexane, pure	2	5	4	5	2	4	1	1	1	4	2	5	5	5	5	5	5	5
Cyclohexanone, pure	4	5	4	5	2	4	1	1	5	5	5	5	5	5	5	5	5	5
Cyclopentane, pure	4	5	4	5	2	4	1	1	5	5	-	-	5	5	5	5	-	-
Decahydronaphthalene, pure	5	5	1	2	1	1	1	1	1	-	-	-	5	5	5	5	5	5
Decalin, pure	5	5	1	2	1	1	1	1	1	-	-	-	5	5	5	5	5	5
Diacetone, pure	2	4	5	5	4	4	1	1	5	5	5	5	5	5	5	5	-	-
Diacetone Alcohol, pure	2	4	1	1	1	1	1	1	5	5	-	-	1	4	5	5	4	4
Dibutyl Phthalate, pure	2	5	4	5	2	4	1	1	2	5	1	-	5	5	5	5	4	4
Diethyl Benzene, pure	5	5	4	5	2	4	1	1	4	5	-	-	5	5	5	5	-	-
Diethyl Ether, pure	4	5	4	5	2	4	1	1	5	5	1	-	5	5	5	5	5	5
Diethyl Ketone, pure	2	2	5	5	4	4	1	1	5	5	1	-	5	5	5	5	5	5
Diethyl Malonate, pure	1	1	1	1	1	1	1	1	4	5	-	-	5	5	5	5	-	-
Diethylamine, pure	2	5	4	5	5	5	1	1	5	5	-	-	2	2	5	5	4	4
Diethylene Dioxide, pure	5	5	2	2	1	1	1	1	5	5	1	5	5	5	5	5	-	-
Diethylene Glycol, pure	1	1	1	1	1	1	1	1	2	4	-	-	1	1	4	5	-	-
Diethylene Glycol Monoethyl Ether, pure	1	1	1	1	1	1	1	1	4	5	-	-	5	5	5	5	-	-
Dimethyl Acetamide, pure	1	1	1	1	2	2	1	1	5	5	2	5	5	5	5	5	-	-
Dimethyl Formamide, pure	1	1	1	1	2	2	1	1	5	5	1	4	5	5	5	5	-	-
Dimethylsulfoxide, pure	1	1	1	1	1	1	1	1	5	5	5	5	1	2	5	5	-	-
Dioxane, pure	5	5	2	2	1	1	1	1	5	5	4	-	5	5	5	5	5	5
Dipropylene Glycol, pure	1	1	1	1	1	1	1	1	2	4	-	-	1	1	4	5	-	-
DMSO, pure	1	1	1	1	1	1	1	1	5	5	5	5	1	2	5	5	-	-
Ethanol, 40%	1	1	1	1	1	1	1	1	1	1	2	-	1	2	2	4	2	2
Ether, pure	5	5	4	5	2	4	1	1	5	5	1	-	5	5	5	5	5	5
Ethyl Acetate, pure	2	5	1	1	1	1	1	1	5	5	5	5	5	5	5	5	5	5
Ethyl Alcohol, 40%	1	1	1	1	1	1	1	1	1	1	2	2	1	2	2	4	2	2
Ethyl Alcohol, 96%	1	1	1	2	1	1	1	1	1	2	2	2	1	2	4	5	2	2
Ethyl Alcohol, pure	1	1	1	1	1	1	1	1	1	2	2	-	1	2	4	5	2	2
Ethyl Benzene, pure	5	5	4	5	2	4	1	1	5	5	1	-	5	5	5	5	5	5
Ethyl Benzoate, pure	2	4	2	2	1	1	1	1	5	5	-	-	5	5	5	5	5	5
Ethyl Butyrate, pure	2	5	2	4	1	2	1	1	5	5	-	-	5	5	5	5	5	5
Ethyl Chloride, pure	4	5	5	5	4	4	1	1	5	5	5	5	5	5	5	5	5	5
Ethyl Cyanoacetate, pure	1	1	1	1	1	1	1	1	4	5	-	-	2	5	5	5	5	5
Ethyl Lactate, pure	1	1	1	1	1	1	1	1	4	5	-	-	4	5	5	5	5	5
Ethylene Chloride, pure	5	5	5	5	4	4	1	1	5	5	5	5	5	5	5	5	5	5
Ethylene Glycol, pure	1	1	1	1	1	1	1	1	1	2	1	-	1	1	4	5	4	4
Ethylene Glycol Monomethyl Ether, pure	2	4	1	1	1	1	1	1	5	5	4	5	5	5	4	5	4	4
Ethylene Oxide, 100%	4	5	2	4	1	2	1	1	4	5	2	4	5	5	2	5	2	2
Ethylene Oxide, gas	1	1	1	1	1	1	1	1	1	2	4	1	2	1	2	1	2	1
Ethylene Oxide, pure	2	5	2	4	1	2	1	1	4	5	2	4	5	5	2	5	2	2
EtO, gas	1	1	1	1	1	1	1	1	1	1	2	4	1	2	1	2	1	1
EtO, pure	4	5	2	4	1	2	1	1	4	5	2	4	5	5	2	5	2	2
Fatty Acids, saturated, pure	1	2	1	1	1	1	1	1	2	4	2	4	1	4	1	2	1	1
Fatty Acids, unsaturated, pure	1	2	1	1	1	1	1	1	2	4	2	4	1	4	1	2	1	1
Fluorides	1	1	1	1	1	1	1	1	1	1	-	-	2	2	2	4	2	2
Fluorine, gas	5	5	2	5	2	5	2	4	2	4	5	5	5	5	4	5	4	4
Formaldehyde, 10%	1	1	1	1	1	1	1	1	1	1	-	-	2	2	2	4	2	2
Formaldehyde, 40%	1	1	1	2	1	2	1	1	1	1	1	-	2	2	4	5	4	4
Formalin, 10%	1	1	1	1	1	1	1	1	1	1	1	-	2	2	2	5	2	2
Formalin, 40%	1	1	1	2	1	2	1	1	1	1	-	-	2	2	4	5	4	4
Formic Acid, 3%	1	1	1	1	1	1	1	1	1	2	1	-	1	1	1	2	1	1
Formic Acid, 50%	1	2	1	1	1	1	1	1	2	4	-	-	2	4	2	4	2	2
Formic Acid, 85%	1	2	1	1	1	1	1	1	4	5	-	-	2	4	4	5	4	4
Formic Acid, 100%	1	2	1	1	1	1	1	1	4	5	-	-	2	4	5	5	5	5

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	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C
Formic Acid, pure	1	2	1	1	1	1	1	1	4	5	-	-	2	4	5	5	5	5
Freon TF, pure	1	2	1	2	1	1	1	1	2	5	1	-	4	5	5	5	5	5
Fuel Oil	1	4	2	4	1	2	1	1	1	2	-	-	4	5	5	5	5	5
Gasoline	4	5	4	5	2	4	1	1	4	5	2	-	5	5	5	5	5	5
Glutaraldehyde, pure	1	1	1	1	1	1	1	1	1	4	2	-	1	4	4	5	4	4
Glutaraldehyde Disinfectant	1	1	1	1	1	1	1	1	1	4	-	-	1	4	4	5	4	4
Glycerine, pure	1	1	1	1	1	1	1	1	1	1	1	-	1	1	4	2	4	4
Glycerol, pure	1	1	1	1	1	1	1	1	1	1	-	-	1	1	4	2	4	4
Hexane, pure	2	4	2	4	1	2	1	1	4	5	2	-	5	5	5	5	5	5
Hydrazine, pure	5	5	5	5	-	-	1	1	5	5	-	-	5	5	5	5	5	5
Hydrobromic Acid, 69%	1	2	1	2	1	2	1	1	2	4	5	5	4	4	2	5	2	2
Hydrochloric Acid, 5%	1	1	1	1	1	1	1	1	1	1	2	2	1	1	2	4	2	2
Hydrochloric Acid, 20%	1	1	1	1	1	1	1	1	2	4	2	4	1	1	2	4	2	2
Hydrochloric Acid, 35%	1	2	1	1	1	1	1	1	4	5	2	5	1	1	4	5	4	4
Hydrofluoric Acid, 4%	1	1	1	1	1	1	1	1	2	2	4	5	2	4	2	4	2	2
Hydrofluoric Acid, 48%	1	2	1	1	1	1	1	1	4	5	5	5	5	5	4	5	4	4
Hydrogen Peroxide, 3%	1	2	1	1	1	1	1	1	1	2	-	1	2	1	2	1	2	1
Hydrogen Peroxide, 30%	1	4	1	1	1	1	1	1	1	1	2	-	1	2	2	5	2	2
Hydrogen Peroxide, 90%	1	4	1	1	1	1	1	1	1	1	2	-	1	2	2	5	5	5
Iodine Crystals, pure	1	1	5	5	5	5	1	1	2	5	-	-	2	4	5	5	5	5
Isobutanol, pure	1	1	1	1	1	1	1	1	1	2	1	5	2	2	2	5	2	2
Iso-Butyl Alcohol, pure	1	1	1	1	1	1	1	1	1	2	1	5	2	2	2	5	2	2
Isopropanol, 100%	1	1	1	1	1	1	1	1	1	1	1	5	1	2	2	5	2	2
Isopropanol, pure	1	1	1	1	1	1	1	1	1	1	1	5	1	2	2	5	2	2
iso-Propanol, 100%	1	1	1	1	1	1	1	1	1	1	-	1	2	2	5	2	2	2
Isopropyl Acetate, pure	2	4	1	2	1	1	1	1	5	5	-	-	5	5	5	5	5	5
Isopropyl Alcohol, 100%	1	1	1	1	1	1	1	1	1	1	-	-	1	2	2	5	2	2
Isopropyl Alcohol, pure	1	1	1	1	1	1	1	1	1	1	-	-	1	2	2	5	2	2
Isopropyl Benzene, pure	4	5	4	5	2	4	1	1	5	5	-	-	5	5	5	5	5	5
Isopropyl Ether, pure	5	5	4	5	2	4	1	1	5	5	-	-	5	5	5	5	5	5
Jet Fuel	4	5	4	5	2	4	1	1	2	5	1	5	2	4	5	5	5	5
Kerosene	4	5	4	5	2	4	1	1	1	-	2	2	5	5	5	5	5	5
Lacquer Thinner	4	5	4	5	2	4	1	1	5	5	5	5	5	5	5	5	5	5
Lactic Acid, 3%	1	1	1	1	1	1	1	1	1	4	5	1	1	1	2	1	2	1
Lactic Acid, 85%	1	2	1	1	1	1	1	1	1	2	5	5	1	1	2	4	2	2
Lead Acetate, pure	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	5	2	2
Magnesium Chloride, pure	1	1	1	1	1	1	1	1	1	1	2	-	1	1	2	5	2	2
MEK, pure	1	2	5	5	4	4	1	1	5	5	2	-	5	5	5	5	5	5
Mercuric Chloride, pure	1	1	1	1	1	1	1	1	1	1	5	5	2	2	5	5	5	5
Methanol, 100%	1	1	1	1	1	1	1	1	2	4	2	-	2	4	4	5	4	4
Methoxyethyl Oleate, pure	1	2	1	1	1	1	1	1	4	5	2	-	5	5	5	5	5	5
Methyl Acetate, pure	2	4	4	4	2	2	1	1	5	5	5	5	5	5	5	5	5	5
Methyl Alcohol, 100%	1	1	1	1	1	1	1	1	2	4	2	-	2	4	4	5	4	4
Methyl Alcohol, pure	1	1	1	1	1	1	1	1	2	4	2	-	2	4	4	5	4	4
Methyl Ethyl Ketone, pure	1	2	5	5	4	4	1	1	5	5	2	-	5	5	5	5	5	5
Methyl Isobutyl Ketone, pure	2	4	5	5	4	4	1	1	5	5	5	5	5	5	5	5	5	5
Methyl Propyl Keytone, pure	1	2	4	5	2	4	1	1	5	5	5	5	5	5	5	5	5	5
Methylene Chloride, pure	4	5	4	5	2	4	1	1	5	5	5	5	5	5	5	5	5	5
Methyl-t-Butyl Ether, pure	4	5	4	5	2	4	1	1	5	5	5	5	5	5	5	5	5	5
MIBK, pure	2	4	5	5	4	4	1	1	5	5	5	5	5	5	5	5	5	5
Mineral Oil	1	4	1	1	1	1	1	1	1	2	5	1	1	4	5	4	4	4
Mineral Spirits	4	5	4	5	2	4	1	1	4	4	2	-	4	4	5	5	5	5
n-Amyl Acetate, pure	2	4	1	2	1	1	1	1	5	5	-	-	5	5	5	5	5	5
n-Butanol, pure	1	1	1	1	1	1	1	1	2	4	-	-	1	2	4	5	4	4
n-Butyl Acetate, pure	2	4	2	4	1	2	1	1	5	5	-	-	5	5	5	5	5	5
n-Butyl Alcohol, pure	1	1	1	1	1	1	1	1	2	4	-	-	1	2	4	5	4	4
n-Decane, pure	4	5	4	5	2	4	1	1	4	5	-	-	4	5	4	5	4	4
n-Heptane, pure	4	4	4	4	2	2	1	1	4	5	1	-	5	5	5	5	5	5
Nitric Acid, 10%	1	1	1	1	1	1	1	1	1	2	2	-	2	5	1	4	1	1
Nitric Acid, 20%	4	4	2	2	2	2	1	1	1	2	2	-	2	5	2	5	2	2
Nitric Acid, 50%	4	5	4	5	4	5	1	1	2	4	2	-	4	5	4	5	4	4
Nitric Acid, 70%	4	5	4	5	4	5	1	1	2	5	5	5	5	5	5	5	5	5
Nitrobenzene, pure	5	5	5	5	4	4	1	1	5	5	5	5	5	5	5	5	5	5
Nitromethane, pure	4	5	4	5	4	5	1	1	4	5	5	5	5	5	5	5	5	5
n-Octane, pure	1	1	1	1	1	1	1	1	2	4	-	-	5	5	5	5	5	5
o-Dichlorobenzene, pure	4	5	5	5	4	4	1	1	5	5	5	5	5	5	5	5	5	5
Oil, Cedarwood	5	5	4	5	-	-	1	1	2	4	-	-	5	5	5	5	5	5
Oil, Cinnamon	5	5	4	5	-	-	1	1	2	4	-	-	5	5	5	5	5	5

Chemical Compatibility Rating for Carboy Materials

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	Polypropylene (PP)		High Density Polyethylene (HDPE)		Fluorinated Polyethylene (FLPE)		PFA (Teflon)		Polycarbonate (PC)		PETG/Co-Polyester (CP)		Polystyrene (PS)		Flexible Polyvinyl Chloride (PVC)		Platinum Cured Silicone	
	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C
Oil, Mineral	1	1	1	1	1	1	1	1	1	2	-	-	1	1	2	5	2	
Oil, Pine	1	2	4	5	1	2	1	1	2	4	-	-	5	5	5	5	5	
Orange Oil	2	4	2	4	1	2	1	1	4	4	-	-	5	5	5	5	5	
Oxalic Acid, 10%	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	5
Ozone, pure	4	5	2	5	2	5	1	1	5	5	-	-	4	4	2	4	2	
p-Chloroacetophenone, pure	1	1	1	1	1	1	1	1	2	5	-	-	5	5	5	5	5	
p-Dichlorobenzene, pure	2	4	5	5	4	4	1	1	5	5	5	5	5	5	5	5	5	
Perchloric Acid, 70%	2	5	2	5	2	5	2	4	5	5	5	5	2	4	5	5	5	
Perchloric Acid, concentrated	2	5	2	5	2	5	2	4	5	5	5	5	2	4	5	5	5	
Perchloric Acid, pure	2	5	2	5	2	5	2	4	5	5	-	-	2	4	5	5	5	
Perchloroethylene, pure	5	5	5	5	4	4	1	1	5	5	4	-	5	5	5	5	5	
Petroleum	5	5	2	5	1	4	1	1	4	4	1	-	5	5	5	5	5	
Phenol, 50%	5	5	5	5	4	4	1	1	5	5	5	5	5	5	5	5	5	
Phenol, 100%	5	5	5	5	4	4	1	1	5	5	5	5	5	5	5	5	5	
Phenol, Crystal	2	5	2	4	1	1	1	1	5	5	5	5	5	5	4	5	4	
Phenol, liquid	5	5	5	5	4	4	1	1	5	5	5	5	5	5	5	5	5	
Phosphoric Acid, 5%	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	2	1	
Phosphoric Acid, 85%	1	2	1	1	1	1	1	1	1	2	1	-	1	2	2	4	2	
Picric Acid, pure	5	5	5	5	5	5	1	1	5	5	-	-	2	4	5	5	5	
Pine Oil, pure	1	2	4	5	4	5	1	1	2	4	-	-	5	5	5	5	5	
Potassium Chloride, pure	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	2	1	
Potassium Hydroxide, 1%	1	1	4	4	5	5	1	1	4	5	5	5	1	2	1	2	1	
Potassium Hydroxide, 30%	1	1	1	1	4	4	1	1	5	5	5	5	2	2	2	5	2	
Potassium Hydroxide, concentrated	1	1	1	1	4	4	1	1	5	5	5	5	2	2	4	5	4	
Potassium Permanganate, pure	1	2	1	1	1	1	1	1	1	1	1	1	1	2	2	5	2	
Propane, gas	5	5	1	1	1	1	1	1	4	5	1	-	5	5	4	5	4	
Propionic Acid, pure	1	2	1	4	1	4	1	1	5	5	-	-	2	5	4	5	4	
Propylene Glycol, pure	1	1	1	1	1	1	1	1	2	4	-	-	1	1	2	5	2	
Propylene Oxide, pure	1	2	1	1	1	1	1	1	2	4	-	-	5	5	4	5	4	
Pyridine, pure	1	1	5	5	5	5	1	1	5	5	-	-	5	5	5	5	5	
Resorcinol, 5%	1	1	1	1	1	1	1	1	2	4	-	-	2	4	5	5	5	
Resorcinol, saturated	1	1	1	1	1	1	1	1	2	4	-	-	2	4	5	5	5	
Salicylaldehyde, pure	1	2	1	1	1	1	1	1	2	4	-	-	5	5	5	5	5	
Salicylic Acid, powder	1	1	1	1	1	1	1	1	1	2	-	-	1	1	2	4	2	
Salicylic Acid, saturated	1	1	1	1	1	1	1	1	1	2	-	-	1	2	2	4	2	
Sand	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
sec-Butanol, pure	1	1	1	1	1	1	1	1	1	2	-	-	2	2	2	5	2	
sec-Butyl Alcohol, pure	1	1	1	1	1	1	1	1	1	2	-	-	2	2	2	5	2	
Silicone Oil, pure	1	1	1	1	1	1	1	1	1	5	5	1	2	2	4	2		
Silver Acetate, pure	1	1	1	1	1	1	1	1	1	2	-	-	2	2	2	5	2	
Silver Nitrate, pure	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	
Skydrol LD4 Aviation Hydraulic Fluid	1	2	1	2	1	2	1	1	5	5	-	-	5	5	5	5	5	
Sodium Acetate, pure	1	1	1	1	1	1	1	1	1	2	-	-	1	1	2	5	2	
Sodium Carbonate, pure	1	1	1	1	4	4	1	1	2	4	2	-	1	2	2	5	2	
Sodium Dichromate, pure	1	1	1	1	1	1	1	1	1	1	-	-	1	1	2	5	2	
Sodium Hydroxide, 1%	1	1	4	4	5	5	1	1	4	5	2	2	1	1	1	4	1	
Sodium Hydroxide, 10%	1	1	1	1	4	4	1	1	5	5	2	2	1	1	2	5	2	
Sodium Hydroxide, 50%	1	1	1	1	4	4	1	1	5	5	5	5	1	2	4	5	4	
Sodium Hydroxide, concentrated	1	1	1	1	4	4	1	1	5	5	5	5	1	2	4	5	4	
Sodium Hypochlorite, 15%	4	5	1	2	4	4	1	1	2	4	2	2	1	2	4	5	4	
Stearic Acid, pure	1	1	2	2	2	2	1	1	1	2	1	-	1	2	1	2	1	
Sulfur Dioxide, dry gas	1	1	1	1	1	1	1	1	1	2	-	-	4	5	2	5	2	
Sulfur Dioxide, liquid (46 psig)	1	1	4	5	4	5	1	1	2	5	-	-	5	5	5	5	5	
Sulfur Dioxide, wet gas	1	1	1	1	1	1	1	1	1	2	-	-	4	5	2	5	2	
Sulfur Dioxide, pure	1	1	4	5	4	5	1	1	2	5	2	-	5	5	5	5	5	
Sulfur Salts, pure	4	5	2	4	2	4	1	1	4	5	-	-	5	5	2	5	2	
Sulfuric Acid, 6%	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	2	1	
Sulfuric Acid, 20%	1	1	1	1	1	1	1	1	1	2	1	-	1	1	1	4	1	
Sulfuric Acid, 30%	1	1	1	1	1	1	1	1	2	4	2	-	1	1	4	5	4	
Sulfuric Acid, 60%	2	4	1	2	1	2	1	1	2	4	5	5	1	2	4	5	4	
Sulfuric Acid, 96%	4	5	4	5	4	5	1	1	5	5	5	5	4	4	5	5	5	
Sulfuric Acid, 98%	4	5	4	5	4	5	1	1	5	5	5	5	4	4	5	5	5	
Sulfuric Acid, concentrated	5	5	4	5	4	5	1	1	5	5	5	5	5	5	5	5	5	
Tartaric Acid, pure	1	1	1	1	1	1	1	1	1	2	-	-	1	2	1	2	1	
TCA, pure	2	4	4	5	4	5	1	1	4	5	-	-	4	5	4	5	4	
tert-Butanol, pure	1	2	1	1	1	1	1	1	2	4	-	-	2	2	4	5	4	
tert-Butyl Alcohol, pure	1	2	1	1	1	1	1	1	2	4	-	-	2	2	4	5	4	
Tetrahydrofuran, pure	2	4	4	5	2	4	1	1	5	5	-	-	5	5	5	5	5	

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	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C
THF, pure	2	4	4	5	2	4	1	1	5	5	-	-	5	5	5	5	5
Thionyl Chloride, pure	5	5	5	5	5	5	1	1	5	5	-	-	5	5	5	5	5
Tincture of Iodine	1	1	2	4	2	4	1	1	2	5	-	-	2	4	2	4	2
Toluene, pure	5	5	5	5	4	4	1	1	5	5	4	5	5	5	5	5	5
Tributyl Citrate, pure	2	4	1	2	1	1	1	1	5	5	-	-	5	5	5	5	5
Trichloroacetic Acid, pure	2	4	4	5	4	5	1	1	4	5	-	-	4	5	4	5	4
Trichloroethane, pure	5	5	5	5	4	4	1	1	5	5	-	-	5	5	5	5	5
Trichloroethylene, pure	5	5	5	5	4	4	1	1	5	5	5	5	5	5	5	5	5
Triethylene Glycol, pure	1	1	1	1	1	1	1	1	1	2	-	-	1	2	4	5	4
Tripropylene Glycol, pure	1	1	1	1	1	1	1	1	1	2	-	-	1	1	4	5	4
Tris Buffer Solution, pH 11	1	2	1	2	1	2	1	1	4	5	4	5	2	5	1	2	1
Tris Buffer Solution, pH 7.0	1	2	1	2	1	2	1	1	2	4	2	2	2	5	1	2	1
Trisodium Phosphate, pure	1	1	1	1	4	4	1	1	2	5	-	-	1	1	2	5	2
Turpentine	4	5	4	5	2	4	1	1	4	5	2	2	5	5	4	5	4
Undecyl Alcohol, pure	1	2	1	2	1	1	1	1	2	4	-	-	2	2	2	4	2
Urea, pure	1	1	1	1	1	1	1	1	2	4	1	-	1	2	2	5	2
Vinylidene Chloride, pure	5	5	4	5	2	4	1	1	5	5	-	-	5	5	5	5	5
Water	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Xylene, pure	5	5	4	5	2	4	1	1	5	5	4	-	5	5	5	5	5
Zinc Chloride, 10%	1	1	1	1	1	1	1	1	1	1	1	-	1	1	2	5	2
Zinc Stearate, pure	1	1	1	1	1	1	1	1	1	1	-	-	1	1	2	5	2
Zinc Sulfate, 10%	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	5	2

Justrite and Chemical Compatibility

Because of the complex nature of chemicals, Justrite cannot offer specific recommendations on chemical compatibility. Your chemical supplier, SDS sheets, or other expert sources should be consulted. This chart is offered as a guide for convenience and is not a substitute for the user clearly understanding the nature and proper use of the chemicals. To aid in your decision process to select the appropriate Justrite product for your application, contact Justrite Customer Service to obtain sample material parts for you to test with the chemicals you are using. Justrite makes no guarantee of results and assumes no obligation or liability in connection with the use of these products and their application relative to their chemical compatibility. It is the end user's sole responsibility to determine the nature of the materials to be contained and to select the proper product suitable for a particular application. Furthermore, it is the end user's responsibility to insure that the product selected is suitable for its intended use. JUSTRITE MAKES NO WARRANTY, EXPRESSED OR IMPLIED OF MERCHANTABILITY OR FITNESS FOR PURPOSE, and assumes no liability in connection with any product made or sold by Justrite with regard to its use or chemical compatibility.