

Tables of Chemical Resistance for the STUDOR Chem-Vent

Medium	Formula	Medium	Formula
Inorganic Media		Mercury	
Aluminium		chloride (II)	Hg
ammonium sulphate	AlNH ₄ (SO ₄) ₂ 12H ₂ O	nitrate (II)	HgCl ₂
chloride	AlCl ₃ 6H ₂ O	sodium amalgam	Mg(NO ₃) ₂ H ₂ O
fluoride, anhydrous	AlF ₃		HgNa
hydroxide	Al(OH) ₃	Nickel	
nitrate	Al(NO ₃) ₃ 9H ₂ O	chloride	NiCl ₂ 6H ₂ O
potassium sulphate	Al ₂ (SO ₄) ₃ K ₂ SO ₄ 24H ₂ O	nitrate	Ni(NO ₃) ₂ 6H ₂ O
		sulfate	NiSO ₄ 6H ₂ O
Ammonia	NH ₃ , gas liquid	Nitric	
Ammonium		acid	HNO ₃
bromide	NH ₄ Br	Oxygen	O ₂ gas
carbonate	(NH ₄) ₂ CO ₃ H ₂ O	Perchloric	
chloride	NH ₄ Cl	acid	HClO ₄
fluoroborate	NH ₄ BF ₄	Phosphoric	
hydrofluoride	NH ₄ F HF	acid, ortho-	H ₃ PO ₄
hydroxide	NH ₄ OH	Phosphorous	
		oxychloride	POCl ₃
nitrate	NH ₄ NO ₃	trichloride	PCl ₃
orthophosphate	(NH ₄) ₃ PO ₄ 4H ₂ O	Potassium	K
sulfate	(NH ₄) ₂ SO ₄	aluminium sulfate	Al ₂ (SO ₄) ₃ K ₂ SO ₄ 24H ₂ O
sulfide	(NH ₄) ₂ S	bromide	Kbr
Antimony		carbonate	K ₂ CO ₃
trichloride	SbCl ₃	chlorate	KClO ₃
Barium		chloride	KCl
chloride	BaCl ₂ 2H ₂ O	dichromate	K ₂ Cr ₂ O ₇
hydroxide, octahydrate	Ba(OH) ₂ 8H ₂ O	ferrocyanide	K ₄ Fe(CN) ₆ 3H ₂ O
Boric		fluoride	KF
acid, ortho-	H ₃ BO ₃	hydroxide	KOH
Boron		nitrate	KNO ₃
trifluoride	BF ₃	permanganate	KMnO ₄
Bromine		sulfate	K ₂ SO ₄
water	Br ₂ liquid	sulfide	K ₂ S
Calcium		Silicon	
carbonate	CaCO ₃	tetrachloride	SiCl ₄
chloride	CaCl ₂	Silver	
hydroxide	Ca(OH) ₂	cyanide	AgCN
nitrate	Ca(NO ₃) ₂ 4H ₂ O	nitrate	AgNO ₃
sulfate	CaSO ₄ 2H ₂ O	Sodium	Na
Carbon		acetate	CH ₃ COONa

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dioxide	CO ₂	benzoate	C ₆ H ₅ COONa
disulfide	CS ₂	bromide	NaBr
tetrachloride	CCl ₄	carbonate	Na ₂ CO ₃ 10H ₂ O
		chlorate	NaClO ₃
Chlorine	Cl ₂ , dry gas, wet gas, liquid	chloride	NaCl
atomic chlorine	Cl	cyanide	NaCN
chlorine dioxide	ClO ₂ gas	fluoride	NaF
		hydrogen carbonate	NaHCO ₃
Chlorosulfonic		hydrogen sulfate	NaHSO ₄
acid	ClSO ₂ OH	hydrogen sulfite	NaHSO ₃
		hydroxide	NaOH
Chromium		hypochlorite	NaClO
trioxide	CrO ₃	nitrate	NaNO ₃
		nitrite	NaNO ₂
Copper		orthophosphate	Na ₃ PO ₄ 12H ₂ O
chloride (II)	CuCl ₂ 2H ₂ O	silcate	Na ₂ SiO ₃
nitrate (II)	Cu(NO ₃) ₂ 3 H ₂ O	sulfate	Na ₂ SO ₄
sulfate (II)	CuSO ₄ 5H ₂ O	sulfide	Na ₂ S
		sulfite	Na ₂ SO ₃
Fluorine	F ₂ gas or liquid	tetraborate	Na ₂ B ₄ O ₇ 10H ₂ O
		thiosulfate	Na ₂ S ₂ O ₃ 5H ₂ O
Fluoroboric			
acid	HF	Sulfamic	
		acid	NH ₂ SO ₃ H
Fluorosilicic			
acid	H ₂ SiF ₆	Sulfochromic	
		acid	50% CrO ₃ / 15% H ₂ SO ₄ / 35% H ₂ O
Hydrazine			
hydrated	N ₂ H ₄ H ₂ O	Sulfonitronic	
		acid	65% H ₂ SO ₄ / 20% HNO ₃ / 15% H ₂ O
Hydrogen			
bromide	HBr	Sulfur	S ₆ solid
chloride	HCl	dioxide	SO ₂ gas liquid
Fluoride	HF	trioxide	SO ₃
iodide	HI		
peroxide	H ₂ O ₂ O	Sulfuric	
		acid	H ₂ SO ₄
Iodine	I ₂ , dry or moist		
		Sulfuryl	
Iron		chloride	SO ₂ Cl ₂
chloride (II)	FeCl ₂ 4H ₂ O		
chloride hydrate (III)	FeCl ₃ 6H ₂ O	Thionyl	
nitrate (III)	Fe(NO ₃) ₃ 9H ₂ O	chloride	SOCl ₂
sulfate (III)	Fe(SO ₄) ₃		
		Tin	
Lead		chloride (II)	SnCl ₂
acetate	(CH ₃ COO) ₂ Pb 3H ₂ O	chloride (IV)	SnCl ₄
Lithium		Water	H ₂ O
bromide	LiBr		

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Magnesium		Zinc	
carbonate, basic	MgCO ₃ Mg(OH) ₂ 3H ₂ O	chloride	ZnCl ₂
chloride	MgCl ₂ 6H ₂ O	nitrate	Zn(NO ₃) ₂ 6H ₂ O
hydroxide	Mg(OH) ₂	sulfate	ZnSO ₄ 7H ₂ O
nitrate	Mg(NO ₃) ₂ 6H ₂ O		
sulfate	MgSO ₄ 7H ₂ O		
Organic Media			
Acetaldehyde		Ether	
trichloro-, syn. Chloral		chloromethyl-	
		dibutyl-	
Acetic Acid		diethyl-	
monochloro-		diisopropyl-	
dichloro-		diphenyl-	
trichloro-		isoamyl-, syn. Dibutyl ether, 3,3 dimethyl	
trifluoro-			
hydroxy-, syn. Glycolic		Ethylene	
methylchlorophenoxy-		syn.ethene	
- amyl ester, syn. Amyl acetate		-chlorohydrin, syn. 2-chlorethanol	
- anhydride		-diamine, syn. 1,2 diaminoethane	
- chloride		-gylcol, syn. 1,2-ethanediol	
- butyl ester			
- cyclohexyl ester		Ethyl Mercaptan	
- ethyl ester		syn.ethanethiol	
- 2-ethoxyethyl ester, syn. Cellosolve acetate			
- 1-pentyl ester		Formaldehyde	
- nitrite, syn. Acetonitrite			
		Formic Acid	
Acetone		-ethyl ester	
syn. 2-propanone		-methyl ester	
Acetonitrile		Freon 12	
syn. Acetic acid, nitrile			
		Freon 113	
Acetophenone			
		Freon 502	
Acrylic Acid			
syn. propenoic acid		Fumaric Acid	
- ethyl ester		syn. Trans-butenedioic acid	
- methyl ester			
		Furan	
Acrylonitrile		tetrahydro-	
syn. Propenoic acid nitrile			
		Furfural	
Allyl Chloride			
syn. 3-chloropropane		Gallic Acid	
		syn. 3,4,5-trihydroxybenzoic acid	
Amine			
diethyl-		d-Glucose	
diethyl-2, 2'dihydroxy-. Syn diethanolamine			

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dimethyl-		Glutamic Acid	
triethyl-			
2.2'2'-trihydroxyethyl-, syn. Triethanolamine		Glycerin	
		syn. Glycerol	
		monochlorohydrin of-	
Amyl acetate			
		Glycolic Acid	
Amyl alcohol		syn. Hydroxyacetic acid	
syn., 1-pentanol			
syn., 2-pentanol		Heptane	
Aniline		Heptanol	
n, n-dimethyl-		2,6-dimethyl-4-	
Benzaldehyde		Heptanone	
		2,6-dimethyl-4-, syn. Isovalerone	
Benzene			
chloro-		Hexadiene	
p-dibomo-		2,5-dimethyl, 5-	
1,2-dichloro-			
ethyl-		1,1,1,3,3,3-Hexamethyldisilazane	
1,2,4-trichloro			
1,2,3-trihydroxy-, syn. Pyrogallol		Hexamethylphosphoramide	
nitro-			
		Hexane	
Benzenesulfonic acid			
2-chloro-		1-Hexanol, 6-Chloro-	
Benzoic acid		Isophorone	
2-hydroxy-, syn. salicylic acid			
3,4,5-trihydroxy-, syn. Gallic acid		Isovalerone	
- chloride		syn. 2,6-dimethyl-4-heptanone	
Benzyl Alcohol		Pentanone	
syn., alpha-hydroxytoluene		4-hydroxy-4-methyl-2-, syn. diacetone alcohol	
		4-methyl-2-, syn. Methyl isobutyl ketone	
Benzyl chloride			
syn. alpha-chlorotoluene		Phenol	
		2,4,6-trinitro-, syn. picric acid	
1,3-Butadiene hexachloro-			
		Phosphoric Acid	
Butane		-tributyl ester	
1-chloro			
		Phthalic Acid	
Butanedionic Acid		-butyl benzylic ester	
2,3-dihydroxy-, syn. Tartaric acid		-dibutyl ester	
		-dimethyl ester	
Butanoic Acid		-dioctyl ester	
syn. Butyric acid			
		Picric Acid	
1-Butanol		syn. 2,4,6,-trinitrophenol	
2-Butanol			

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t-Butanol			
syn. methyl-2-propanol		Piperazine	
		syn. Diethylendiamine	
2-Butanone			
syn. methyl ethyl ketone		Pivaloyl Chloride	
2-Butenal		Propane	
syn. Crotonaldehyde		1-amino-2-methyl- syn. i-butylamine	
		2-amino-2-methyl- syn. i-butylamine	
CIS-Butenedioic acid		1-chloro-2, 3 epoxy-, syn.epichlorohydrin	
syn. Maleic acid		1,2-dichloro	
		1,2 epoxy-, syn. Propylene oxide	
Trans-Butenedioic Acid		1,2,3- trichloro	
syn.fumaric acid			
		1,2 Propanediol	
I-Butylamine		syn. Propylene glycol	
syn. 1-amino-2-methylpropane		-carbonate. Syn. Propylene carbonate	
t-Butylamine		Propanoic Acid	
syn. 2-amino-2-methylpropane		syn. Propionic acid	
		2-hydroxy-, syn. Lactic acid	
Cellosolve Acetate		2-methyl-(4-chlorophenoxy-2)	
syn. Acetic acid, 2-ethoxyethyl ester			
		1-Propanol	
Choloform		2-methyl-2-propanol, syn.t-butyl alcohol	
syn. Trichloromethane			
		2-Propanone	
Chloroformic acid		syn. acetone	
-, p-t-butyl cyclohexyl ester			
-, ethyl ester		2-Methyl Propenoic Acid	
-, methyl ester		methyl ester, syn. Methyl methacrylate	
Citric Acid		Propylene	
		syn. Propene	
Cyclohexane		-carbonate, syn. 1,2-propanediol carbonate	
		-glycol, syn. 1,2-propanediol	
Cyclohexanol		-oxide, syn. 1,2-epoxypropane	
Cyclohexanone		Pyridine	
		-3-carboxylic acid, syn. Nicotinic acid	
Diacetone Alcohol			
syn. 4-hydroxy-4-methyl-2-pentanone		Pyrogallol	
		syn. 1,2,3-trihydroxybenzene	
Diisobutylene			
syn. 2,5 dimethyl- 1,5 hexadiene		Salicylic Acid	
		syn. 2-hydroxybenzoic acid	
Diisobutyl Ketone			
syn. 2,6-dimethyl-1,4-heptanone		Sextate	
		syn. 2-cyclohexyl acetate	
Dimethylacetamide			

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		Silane	
Dimethylformamide		dimethyldichloroo-	
		trimethylchloro-	
Dimethylsulfate			
		Stilbene	
Dimethylsulfoxide			
		Styrene	
1,4-Dioxane			
		Tannic Acid	
Dodecanethiol syn. Lauryl chloride			
		Tartaric Acid	
Dodecanoic Acid, Chloride		syn. 2,3-dihydroxybutanedioic acid	
syn. Lauryl chloride			
		Thiogylcolic	
Epichlorhydrin		syn. 2-mercaptoethanol	
syn. 1-chloro-2, 3-epoxypropane			
		Thioglycolic Acid	
Ethane		syn. Mercaptoacetic	
1,2-diamine-			
1,2-dichloro-		Toluene	
1,1,2,2,-tetrachloro-		alpha-chloro-, syn. Benzylchloride	
1,1,1-trichloro-		alpha, alpha dichloro-, syn. Benzyl dichloride	
1,1,-trifluoro-1,2,2-trichloro-, syn. Freon 113		alpha-hydroxy-, syn. Benzylalcohol	
		p-toluenesulfonic acid	
1,2 Ethanediol		p-toluenesulfonyl chloride	
syn. Ethylene glycol			
		Triethanolamine	
Ethanethiol		syn. 2,2'2' - trihydroxytriethylamine	
Ethanol		Trimethylacetyl, Chloride	
2-amino		syn. Pivaloyl Chloride	
2-chloro-, syn.ethylene chlorohydrin			
2-mercapto-, syn. Thioglycol		Urea	
		tetramethyl-	
Ethene			
syn. Ethylene		Xylol	
tetrachloro- syn.perchloroethylene			
trichloro-			
Miscellaneous Media			
		Mustard	
Aqua Regia		Naphtha	
Bourguignonne Sauce		Seawater	
Brandy		Shell 20/20 Oil	
Bromine Water		Shell ATF Dexron Oil	
Burette Oil		Shell Macona 82 Oil	
Caltex Ursa 50 Oil		Shell Macona 72 Oil	
Clove Oil		Shell Macona 69 Oil	
Cooking Fat		Shell Talpa 60 Oil	
Crude Oil			

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Densol G Oil		Shell Talpa 30 Oil	
Diesel Fuel		Shell Tellus 72 Oil	
Esso Zerice S100		Shell Tellus 29 Oil	
Flushing Oil		Shell Tellus 27 Oil	
Gasoline		Shell Tellus 15 Oil	
H2SO4 : HNO3 (1:1)		Shell Vitrea 75 Oil	
Ilexan HT (HULS)		Shell Vitrea 41 Oil	
Kerosene		Shell Vitrea 30 Oil	
Ketchup		Shell Voluta 270 Oil	
Lard		Shell Voluta 45 Oil	
Light Oil		Skydrol 500 B	
Linseed Oil		Tap Water	
Lockheed Super 105		Tea	
Marlotherm S		Total LHM	
Marlotherm SGB		UCB Spelna Oil	
Milk		Ucon Breox HTF14	
Mineral Oil		Yacco Y Oil	
Mobil Compounds, BB		Xylol Technical	
Mobil Pyrogaurd D			

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