Chemical Compatibility Charts - PLASTICS

Chemical resistance of common plastics used in valves.

The information in these tables is offered as a general guide only to the chemical resistance of commonly used materials in the construction of PLASTIC valves.

These tables are not to be used as an absolute recommendation as there are too many factors that can influence the corrosion resistance, such as temperature, temperature fluctuations, concentrations and solutions, velocity and abrasion. Allvalves Online Ltd therefore accept no responsibility for any problems arising from use of these tables. We recommend that if any doubt exists as to the resistance of a material to a specific chemical, that tests be carried out to verify the compatibility.

What the ratings mean:

Ratings are based on media at ambient/ room temperature unless otherwise stated.

- \+ EXCELLENT RESISTANCE - Material unaffected or insignificantly affected
- 0 CONDITIONAL RESISTANCE - Media can attack the material or cause swelling, pressure and/or temperature restrictions must be made and the serviceable life of the valve can be noticeably reduced.
- \- DO NOT USE, NO RESISTANCE - can not be used at all.

Abbreviations for seal materials used in the tables:

Aggressive media					Chemical resistance										
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Acetaldehyde	CH_3-CHO		40 %, aqueous solution	20 40 60 80 100 120 140	O -	-	-	+ + O	+ O O O -	-	+ O O O	+ + O -	-	+ + O -	+ + O O
Acetaldehyde	CH_3-CHO	21	technically pure	20 40 60 80 100 120 140	-	-	-	+ O	O -	-	+ O -	O -	-	-	O -
Acetic acid	CH_3COOH		50 %, aqueous	20 40 60 80 100 120 140	+ + O	+	-	+ + +	+ + +	+ + + O O	+ O	O	-	O	O
Acetic acid	CH_3COOH	118	technically pure, glacial	20 40 60 80 100 120 140	O -	-	-	+ + O	+ + O -	+ O -	+ O	-	-	O	O
Acetic acid anhydride	$(CH_3-CO)_2O$	139	technically pure	20 40 60 80 100 120 140	-	-	-	+ O	+ O	-	O	-	-	-	+
Acetic acid ethylester	$CH_3COOC_2H_5$	77		20 40 60 80 100 120 140	-	-	-	+	+	+	+	O	O	O	O
Acetic acid isobutyl ester	$(CH_3)_2$-CH-$(CH_2)_2$-CO_2H	117	technically pure	20 40 60 80 100 120 140	-	-	-	+	+	+	+	-	-	-	+
Acetone	CH_3-CO-CH_3		up to 10 %, aqueous	20 40 60 80 100 120 140	-	-	O	+ + +	+ + +	O O O	+ + +	O O -	-	+ O -	O O O
Acetone	CH_3-CO-CH_3	56	technically pure	20 40 60 80 100 120 140	-	-	-	+ + +	+ + +	-	+ + +	-	-	-	O O O

Aggressive media					Chemical resistance										
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Ammonium acetate	CH_3COONH_4		aqueous, all	20 40 60 80 100 120 140	+ + O	+ + +	O	+ + +	+ + + +	+ + + + +	+ + + O	+ + +	+ O	+ + O	+ +
Ammonium persulphate	$(NH_4)_2S_2O_8$			20 40 60 80 100 120 140	+ + O	+ O O O		+	O	+ + + + +	+	+	O	+	+
Amonium salts, aqueous, inorganic			saturated	20 40 60 80 100 120 140	+ + +	+ + + +		+ + +	+ + +	+ + + + +	+ + +	+ + +	+ + +	+ + +	+ + +
Amyl acetate	$CH_3(CH_2)_4$-$COOCH_3$	141	technically pure	20 40 60 80 100 120 140	-	-	-	+ + +	O O -	+ O O	O	-	-	-	-
Amyl alcohol	$CH_3(CH_2)_3$-CH_2-OH	137	technically pure	20 40 60 80 100 120 140	+ + O	-	-	+ + +	+ + + +	+ + + + + O	+ + +	O	+ + +	+ + +	O
Aniline	$C_6H_5NH_2$	182	technically pure	20 40 60 80 100 120 140	-	-	-	+ O	+ + O	+ O -	+ + +	O O O	-	-	-
Antimony trichloride	$SbCl_3$		90 %, aqueous	20 40 60 80 100 120 140	+ +	+ + +	-	+ + +	+ + +	+ + +	+	+	-	+	+
Aqua regia	HNO_3+HCl		mixing ratio	20 40 60 80 100 120 140	+ O	+	-	-	-	O	-	O	-	-	O
Arsenic acid	H_3AsO_4		80 %, aqueous	20 40 60 80 100 120 140	+ + O	+ + + +	+ + +	+ + +	+ + + +	+ + + + + +	+ + + +	+ + + + +	+ + + O	+ + +	+ + + +

Aggressive media					Chemical resistance										
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Barium salts, aqueous, inorganic			saturated	20 40 60 80 100 120 140	+ + +	+ + + +	+	+ + +	+ + + +	+ + + +	+ +	+ + + + +	+ +	+	+
Beer			usual commercial	20 40 60 80 100 120 140	+	+	+	+	+	+		+	+	+	+
Benzaldehyde	C_6H_5-CHO	180	saturated, aqueous	20 40 60 80 100 120 140	-	-	-	+ + O	+ O	+ O -	+ + O	+ + +	O	-	-
Benzene	C_6H_6	80	technically pure	20 40 60 80 100 120 140	-	-	-	O O	O -	+ O -	-	+	O	-	-
Benzene sulfonic acid	$C_6H_5SO_3H$		technically pure	20 40 60 80 100 120 140	+	+		+ + O	+ + O	+ + + + +	+ + O	+ +			
Benzine (Gasoline)	C_5H_{12} to $C_{12}H_{26}$	80-130	free of lead and aromatic compounds	20 40 60 80 100 120 140	+ +	+ +	-	+ +	O	+ +	-	+ +	+ +	-	O -
Benzoic acid	C_6H_5-COOH	Fp., 122	aqueous, all	20 40 60 80 100 120 140	+ + O	+ + + O	+ +	+ + +	+ + + +	+ + + + +	+ +	+ + + + O	+	+	+
Benzyl alcohol	C_6H_5-CH_2-OH	206	technically pure	20 40 60 80 100 120 140	O	-	-	+ + O	+ + O	+ + O -	+ + O	+	-	+ + +	O
Beryllium salts, aqueous, inorganic				20 40 60 80 100 120 140	+ + +	+ + + +		+ + +	+ + + +	+ + + + +	+ + +	+ + + +	+	+	+

Aggressive media					Chemical resistance										
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Calcium salts, aqueous, inorganic			≤ Saturated acid	20 40 60 80 100 120 140	+ + +	+ + + +	+ +	+ + +	+ + + +	+ + + + +	+ + +	+ + + +	+	+	+
Carbon dioxide	CO_2		technically pure, anhydrous	20 40 60 80 100 120 140	+ + +	+ + + +		+ + +	+ + + +	+ + + + +	+ + + +	+ + + +	+ + +	+ + +	+ + + +
Carbon tetrachloride	CCl_4	77	technically pure	20 40 60 80 100 120 140	-	-	-	-	-	+	-	+	-	-	-
Carbonic acid	H_2CO_3			20 40 60 80 100 120 140	+ + +	+ + + +		+ + +	+ + + +	+ + + +	+ + + +	+ + + +	+	+	+
Caro's acid	H_2SO_5			20 40 60 80 100 120 140	+	O				-		+			
Caustic potash solution (potassium hydroxide)	KOH	131	50 %, aqueous	20 40 60 80 100 120 140	+ + O	O		+ + +	+ + O	-	+ + + O	-	O -	O	+ O O -
Caustic soda solution	NaOH		50 %, aqueous	20 40 60 80 100 120 140	+ + +	O -		+ + +	+ + O	-	+ + +	-	O	-	+
Chloric acid	$HClO_3$		10 %, aqueous	20 40 60 80 100 120 140	+ + O	+ + +	-	+ +	-	+ +	+ + +	+ + +	-	-	+ + +
Chloric acid	$HClO_3$		20 %, aqueous	20 40 60 80 100 120 140	+ + O	+ + +	-	O	-	+	O O	+ + +	-	-	+ +

Aggressive media					Chemical resistance										
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Butyl phenol, p-tertiary	$(CH_3)_3C-C_6H_4-OH$	237	technically pure	20	O	O	-	O	+	+	-	O	-	-	-
				40	-	-				+					
				60						+					
				80						+					
				100											
				120											
				140											
Butylene glycol	$HO-CH_2-CH=CH-CH_2-OH$	235	technically pure	20	+	+		+	+	+	+	+	-	+	O
				40	+	+		+	+	+	+	+		+	-
				60	O	+		+	+	+	+	O		+	
				80						+					
				100											
				120											
				140											
Butylene liquid	C_4H_8	51	technically pure	20	+			-	-	+	O	+	+	+	O
				40											
				60											
				80											
				100											
				120											
				140											
Butyric acid	$CH_3-CH_2-CH_2-COOH$	163	technically pure	20	+	+	-	+	+	+	O	O	-	O	O
				40											
				60											
				80											
				100											
				120											
				140											
Cadmium salts, aqueous, inorganic			≤ saturated acid	20	+	+		+	+		+	+			
				40	+	+		+	+		+	+			
				60	+	+		+	+		+	+			
				80		+						+			
				100											
				120											
				140											
Caesium salts, aqueous, inorganic			≤ Saturated acid	20	+	+		+	+	+	+	+	+	+	+
				40	+	+		+	+	+	+	+			
				60	+	+		+	+	+	+	+			
				80		+			+	+		+			
				100						+					
				120											
				140											
Calcium acetate	$(CH_3COO)_2Ca$		saturated	20	+	+		+	+	+	+	+	+	+	+
				40	+	+		+	+	+	+	+			
				60	+	+		+	+	+	+	+			
				80		+						+			
				100											
				120											
				140											
Calcium hydroxid	$Ca(OH)_2$	100	saturated, aqueous	20	+	O		+	+	O	+	+	+	+	+
				40	+			+	+	-	+	+	+	+	+
				60	+			+	+		+	+	O	+	
				80					+		+	+			+
				100								+			+
				120											
				140											
Calcium lactate	$(CH_3COO)_2Ca$		saturated	20	+	+		+	+	+	+	+	+	+	+
				40	+	+		+	+	+	+	+			
				60				+	+	+	+	+			
				80					+	+		+			
				100						+					
				120											
				140											

Aggressive media					Chemical resistance										
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Calcium salts, aqueous, inorganic			≤ Saturated acid	20 40 60 80 100 120 140	+ + +	+ + + +	+ +	+ + + +	+ + + +	+ + + + +	+ + +	+ + +	+	+	+
Carbon dioxide	CO_2		technically pure, anhydrous	20 40 60 80 100 120 140	+ + +	+ + + +		+ + +	+ + + +	+ + + + +	+ + +	+ + +	+ + +	+ +	+ + +
Carbon tetrachloride	CCl_4	77	technically pure	20 40 60 80 100 120 140	-	-	-	-	-	+	-	+	-	-	-
Carbonic acid	H_2CO_3			20 40 60 80 100 120 140	+ + +	+ + + +		+ + +	+ + + +	+ + + +	+ + +	+ + +	+	+	+
Caro's acid	H_2SO_5			20 40 60 80 100 120 140	+	O				-		+			
Caustic potash solution (potassium hydroxide)	KOH	131	50 %, aqueous	20 40 60 80 100 120 140	+ + O	O		+ + +	+ + O	-	+ + + O	-	O -	O	+ O O -
Caustic soda solution	NaOH		50 %, aqueous	20 40 60 80 100 120 140	+ + +	O -		+ + +	+ + O	-	+ + +	-	O	-	+
Chloric acid	$HClO_3$		10 %, aqueous	20 40 60 80 100 120 140	+ + O	+ + +	-	+ +	-	+ +	+ + +	+ + +	-	-	+ + +
Chloric acid	$HClO_3$		20 %, aqueous	20 40 60 80 100 120 140	+ + O	+ + +	-	O	-	+	O O	+ + +	-	-	+ +

Aggressive media					Chemical resistance										
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Chlorine	Cl_2		moist, 97 %, gaseous	20 40 60 80 100 120 140	- 	+ + + + 	-	- 	- 	- 	-	+	-	-	O
Chlorine	Cl_2		liquid, technically pure, as double pipe system	20 40 60 80 100 120 140	-	-	-	-	-	+	-	O	-	-	-
Chlorine	Cl_2		anhydrous, technically pure, as double pipe system	20 40 60 80 100 120 140	-	-	-	O O -	-	+ + + + O	O	+	-	-	O
Chlorine water	Cl_2-H_2O		saturated	20 40 60 80 100 120 140	+ + O	+ + O -	O	O O	O	O	O	+	-	O	-
Chloroacetic acid, mono	$ClCH_2COOH$		50 %, aqueous	20 40 60 80 100 120 140	+ +	-	-	+ + O	+ + O	+ O -	O	-	-	-	O
Chloroacetic acid, mono	$ClCH_2COOH$	188	technically pure	20 40 60 80 100 120 140	+ + O	-	-	+ + O	+ + O	+ O	O	-	-	-	O
Chlorobenzene	C_6H_5Cl	132	technically pure	20 40 60 80 100 120 140	-	-	-	O	O	+ + O -	-	-	-	-	O
Chloroethanol	$ClCH_2$-CH_2OH	129	technically pure	20 40 60 80 100 120 140	-	-	-	+ + +	+ + +	+ O O -	O	-	-	-	O
Chlorosulphonic acid	$ClSO_3H$	158	technically pure	20 40 60 80 100 120 140	O	-	-	-	-	O -	-	-	-	-	-

Aggressive media					Chemical resistance										
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Cyclohexanone	$C_6H_{10}O$	155	technically pure	20	-	-	-	+	+	+	O	-	-	-	-
				40				O	O	O					
				60				O	O	-					
				80											
				100											
				120											
				140											
Dextrine	$(C_6H_{10}O_5)n$		usual commercial	20	+	+	+	+	+	+	+	+	+	+	+
				40	+	+	+	+		+	+	+	+	+	+
				60	+	+	+	+		+	+	+	+	+	+
				80		+				+					
				100						+					
				120						+					
				140											
Di isobutyl ketone	$[(CH_3)_2CHCH_2]_2CO$	124	technically pure	20	-	-	-	+	+	+	O	-	-	-	-
				40				O	O	O	O				
				60											
				80											
				100											
				120											
				140											
Dibrombenzene	$C_6H_4Br_2$		≤ Saturated acid	20	-	-	-	O	O	+	O	+	-	-	-
				40											
				60											
				80											
				100											
				120											
				140											
Dibuthyl ether	$C_4H_9OC_4H_9$	142	technically pure	20	-	-	-	O	O	+	-	+	+	-	O
				40											
				60											
				80											
				100											
				120											
				140											
Dibutyl phthalate	$C_6H_4(COOC_4H_9)_2$	340	technically pure	20	-	-	-	+	+	+	O	O	-	-	-
				40				O	O	+					
				60				O	O	O					
				80											
				100											
				120											
				140											
Dichloroacetic acid	$Cl_2CHCOOH$		50 %, aqueous	20	+	-	-	+	+	+	+	O	-	+	O
				40	+			+	+	O	+	O			
				60	O			O	O		+	-			
				80											
				100											
				120											
				140											
Dichloroacetic acid	$Cl_2CHCOOH$	194	technically pure	20	+	-	-	+	+	+	+	O	-	-	O
				40	+			+	+	O	+	-			
				60	O			O	O		+				-
				80											
				100											
				120											
				140											
Dichloroacetic acid methyl ester	$Cl_2CHCOOCH_3$	143	technically pure	20	-	-	-	+	+	O	+	-	-	-	+
				40				+	+		+				+
				60				+	+		O				O
				80											
				100											
				120											
				140											

Aggressive media					Chemical resistance										
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Dichlorobenzene	$C_6H_4Cl_2$	180	technically pure	20 40 60 80 100 120 140	-	-	-	O	O	+	O	+	O	O	O
Dichloroethylene	ClCH=CHCl	60	technically pure	20 40 60 80 100 120 140	-	-	-	-	-	+ +	-	O	-	-	-
Diesel oil				20 40 60 80 100 120 140	+ +	+ +	-	+	O	+ +	-	+ +	+ +	O	O -
Diethyl ether	H_5C_2-O-C_2H_5	35		20 40 60 80 100 120 140	-	-	-	-	-	-	-	-	-	-	-
Diethylamine	$(C_2H_5)_2NH$	56	technically pure	20 40 60 80 100 120 140		-	-	+	+	+ O -	O	-	-	-	-
Dimethyl formamide	$(CH_3)_2CHNO$	153	technically pure	20 40 60 80 100 120 140	-	-	-	+ + O	+ + +	-	O	-	O	+	+
Dimethylamine	$(CH_3)_2NH$	7	technically pure	20 40 60 80 100 120 140	-	-	-	+	-	-	O	-	-	-	-
Dioxane	$C_4H_8O_2$	101	technically pure	20 40 60 80 100 120 140	-	-	-	+ + +	O O O -	-	O	-	O	-	-
Ethanolamine	C_2H_7NO			20 40 60 80 100 120 140	-	-	-	+	+	O	+	O	O	O	O

Aggressive media					Chemical resistance											
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM	
Fluorosilicic acid	H_2SiF_6		32 %, aqueous	20	+	+		+	+	+	+	O	O	O	+	
				40	+	+		+	+	+			-	-	O	
				60	+	O		+	+	+					-	
				80						+						
				100						+						
				120												
				140												
Formaldehyde	HCHO		40 %, aqueous	20	+	+		+	+	+	+	+	+	+	+	
				40	+	+		+	+	+	+	+	+	+	+	
				60				+		+	+	+	O	O	O	
				80						+						
				100												
				120												
				140												
Formamide	$HCONH_2$	210	technically pure	20	-	-	-	+	+		+	O	+	+		
				40				+	+							
				60				+	+							
				80												
				100												
				120												
				140												
Formic acid	HCOOH		≤ 25 %	20	+	+		+	+	+	+					
				40	+	+		+	+	+	+					
				60	+	+		+	+	+						
				80					+	+						
				100												
				120												
				140												
Formic acid	HCOOH		up to 50 %, aqueous	20	+	-	O	+	+	+	+	+	-	+	+	
				40	+			+	+	+	+	+		+	+	
				60	O			+	O	+	O	O		O	+	
				80						+		-			O	
				100						+						
				120												
				140												
Formic acid	HCOOH	101	technically pure	20	+	-	-	+	+	+	+	+	-	+	+	
				40	O			+	O	+	+			O	+	
				60	-			+	-	+	O			-	+	
				80						+	O				O	
				100						+						
				120												
				140												
Frigen 12 (Freon 12)	CCl_2F_2	-30	technically pure	20	+	-	-	-	-	O	O	O	O	+	O	
				40												
				60												
				80												
				100												
				120												
				140												
Fuel oil				20	+	+	-	+	O	+	-	+	+	O	O	
				40	+	+			-	+		+	+		-	
				60												
				80												
				100												
				120												
				140												
Furfuryl alcohol	$C_5H_6O_2$	171	technically pure	20	-	-	-	+	+	+	O	-	-	O	O	
				40				+		+						
				60				+	O	O						
				80						-						
				100												
				120												
				140												

Aggressive media					Chemical resistance											
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM	
Fluorosilicic acid	H_2SiF_6		32 %, aqueous	20	+	+		+	+	+	+	O	O	O	+	
				40	+	+		+	+	+			-	-	O	
				60	+	O		+	+	+					-	
				80						+						
				100						+						
				120												
				140												
Formaldehyde	HCHO		40 %, aqueous	20	+	+		+	+	+	+	+	+	+	+	
				40	+	+		+	+	+	+	+	+	+	+	
				60				+		+	+	+	O	O	O	
				80						+						
				100												
				120												
				140												
Formamide	$HCONH_2$	210	technically pure	20	-	-	-	+	+		+	O	+	+		
				40				+	+							
				60				+	+							
				80												
				100												
				120												
				140												
Formic acid	HCOOH		≤ 25 %	20	+	+		+	+	+	+					
				40	+	+		+	+	+	+					
				60	+	+		+	+	+						
				80					+	+						
				100												
				120												
				140												
Formic acid	HCOOH		up to 50 %, aqueous	20	+	-	O	+	+	+	+	+	-	+	+	
				40	+			+	+	+	+	+		+	+	
				60	O			+	O	+	O	O		O	+	
				80						+		-			O	
				100						+						
				120												
				140												
Formic acid	HCOOH	101	technically pure	20	+	-	-	+	+	+	+	+	-	+	+	
				40	O			+	O	+	+			O	+	
				60	-			+	-	+	O			-	+	
				80						+	O				O	
				100						+						
				120												
				140												
Frigen 12 (Freon 12)	CCl_2F_2	-30	technically pure	20	+	-	-	-	-	O	O	O	O	+	O	
				40												
				60												
				80												
				100												
				120												
				140												
Fuel oil				20	+	+	-	+	O	+	-	+	+	O	O	
				40	+	+			-	+		+	+		-	
				60												
				80												
				100												
				120												
				140												
Furfuryl alcohol	$C_5H_6O_2$	171	technically pure	20	-	-	-	+	+	+	O	-	-	O	O	
				40				+		+						
				60				+	O	O						
				80						-						
				100												
				120												
				140												

Aggressive media					Chemical resistance										
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Hydrochloric acid	HCl		38 %, aqueous	20	+	+	-	+	O	+	+	+	-	-	+
				40	+	+		+		+	O	+			
				60	+	+				+					
				80		O				+					
				100						+					
				120											
				140											
Hydrocyanic acid	HCN	26	technically pure	20	+	+	-	+	+	+	+	+	O	O	+
				40	+	+		+	+	+	O	O	-	-	O
				60	O	+		+	+	+					
				80						+					
				100											
				120											
				140											
Hydrofluoric acid	HF		40 %	20	+	-	-	+	+	+	-	+	-	-	+
				40	O			+	+	+		+			+
				60	O			O	+	+		O			O
				80						+					
				100						+					
				120											
				140											
Hydrogen	H_2	-253	technically pure	20	+	+	+	+	+	+	+	+	+	+	+
				40	+	+	+	+	+	+	+	+	+	+	+
				60	+	+	+	+	+	+	+	+	+	+	+
				80		+			+	+	+	+	+		
				100					-	+		+	+		
				120											
				140											
Hydrogen chloride	HCl	-85	technically pure, gaseous	20	+	+	-	+	+	+	+	+	O	O	O
				40	+	+		+	+	+	+	+	-	-	O
				60	O	+		+	+	+	+	+			-
				80		O				+					
				100						+					
				120											
				140											
Hydrogen peroxide	H_2O_2	105	30 %, aqueous	20	+	+	-	+	+	O	O	+	-	-	+
				40											
				60											
				80											
				100											
				120											
				140											
Hydrogen peroxide	H_2O_2	139	90 %, aqueous	20	+	-	-	O			-	O	-	-	O
				40											
				60											
				80											
				100											
				120											
				140											
Hydrogen sulphide	H_2S		saturated, aqueous	20	+	+		+	+	+	+	+	-	+	+
				40	+	+		+	+	+	-	+	-	-	+
				60	O	+		+	+	+		+			O
				80						+		O			-
				100						+					
				120											
				140											
Hydrogen sulphide	H_2S		technically pure	20	+	+		+	+	+	+	+	+	O	+
				40	+	+		+	+	+	-	+	O	-	O
				60	+	+		O	+	+		O	-		O
				80						+		-			-
				100						+					
				120											
				140											

Aggressive media					Chemical resistance										
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Hydroquinone	$C_6H_4(OH)_2$		30 %	20	+	+		+	+		+				
				40	+	+		+	+						
				60				+	+						
				80					+						
				100											
				120											
				140											
Iodine-potassium iodide solution (Lugol's solution)	I-KI			20	+	-	-	+	+	+	+	+		O	O
				40											
				60											
				80											
				100											
				120											
				140											
Iron salts, aqueous, inorganic			≤ Saturated acid	20	+	+	+	+	+	+	+	+	+	+	+
				40	+	+		+	+	+	+	+			
				60	+	+		+	+	+	+	+			
				80		+			+	+		+			
				100						+		+			
				120											
				140											
Isooctane	$(CH_3)_3$-C-CH_2-CH-$(CH_3)_2$	99	technically pure	20	+	+	-	+	+	+		+	+	+	O
				40											
				60											
				80											
				100											
				120											
				140											
Isopropyl alcohol (ESC)	$(CH_3)_2$-CH-OH	82	technically pure	20	+	-		+	+	+	+	+	+	+	+
				40	+			+	+	+	+				
				60	O			O	O	+					
				80						O					
				100											
				120											
				140											
Isopropyl ether	$(CH_3)_2$-CH-O-CH-$(CH_3)_2$	68	technically pure	20	-	-	-	O	O	+	O	-	-	-	-
				40											
				60											
				80											
				100											
				120											
				140											
Lactic acid	$CH_3CHOHCOOH$		10 %, aqueous	20	+	+	+	+	+	+	+	+	-	-	O
				40	O	+	O	+	+	+	+	O			O
				60	-	+	-	+	+	O	O	O			O
				80		+			+	O	-	O			
				100						-					
				120											
				140											
Lead acetate	$Pb(CH_3COO)_2$		aqueous, saturated	20	+	+	+	+	+	+	+	+	+	+	+
				40	+	+	+	+	+	+	+	+	+	+	+
				60	+	+	+	+	+	+	+	+	+	+	+
				80		+				+					
				100						+					
				120											
				140											
Lead salts, aqueous, inorganic			≤ Saturated acid	20	+	+		+	+	+	+	+	+	+	+
				40	+	+		+	+	+	+	+			
				60	+	+		+	+	+	+	+			
				80		+				+					
				100						+					
				120											
				140											

Aggressive media					Chemical resistance										
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Linseed oil			technically pure	20	+			+	+	+	+	+	+	O	+
				40	+			+	+	+	+	+	+	-	O
				60	O			+	+	+	+	+	+		-
				80					+	+					
				100					+	+					
				120						+					
				140											
Lithium salts, aqueous, inorganic			≤ Saturated acid	20	+	+		+	+	+	+	+		+	+
				40	+	+		+	+	+	+	+			
				60	+	+		+	+	+	+	+			
				80		+			+	+		+			
				100						+					
				120											
				140											
Magnesium salts, aqueous, inorganic			≤ Saturated acid	20	+	+		+	+	+	+	+	+	+	+
				40	+	+		+	+	+	+	+	+	+	+
				60	O	+		+	+	+	+	+	+	+	+
				80		+			+	+	+	+			+
				100					+	+		+			
				120						+					
				140											
Maleic acid	$(CH\text{-}COOH)_2$	Fp., 131	cold saturated, aqueous	20	+	+		+	+	+	+	+	-	-	-
				40	+	+		+	+	+	+	+			
				60	O			+	+	+	+	+			
				80						+		-			
				100						+					
				120						+					
				140											
Mercury	Hg	357	pure	20	+	+	+	+	+	+	+	+	+	+	+
				40	+			+	+	+	+	+	+	+	+
				60	+			+	+	+	+	+	+	+	+
				80						+		+			
				100						+					
				120						+					
				140											
Mercury salts			≤ saturated	20	+	+		+	+	+	+	+	O	O	O
				40	+	+		+	+	+	+	+	O	O	O
				60	O	+		+	+	+	+	+	-	-	-
				80					+	+		+			
				100						+					
				120											
				140											
Methane (natural gas)	CH_4	-161	technically pure	20	+	+	+	+	+	+		+	+	-	-
				40											
				60											
				80											
				100											
				120											
				140											
Methanol	CH_3OH	65	all	20	+	-	-	+	+	+	+	O	+	+	+
				40	+			+	+	O	+	O	+	+	+
				60	O			+	+	-	+	O	+	O	+
				80											
				100											
				120											
				140											
Methyl acetate	CH_3COOCH_3	56	technically pure	20	-	-	-	+	+	+	+	-	-	-	-
				40											
				60											
				80											
				100											
				120											
				140											

Aggressive media					Chemical resistance										
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Mixed acids - sulphuric - nitric - water	H_2SO_4 HNO_3 H_2O		10 % 20 % 70 %	20 40 60 80 100 120 140	+ + +	+ + +	-	+	-	+ + + +	-	+ + +	-	O	+ O
Mixed acids - sulphuric - nitric - water	H_2SO_4 HNO_3 H_2O		50 % 33 % 17 %	20 40 60 80 100 120 140	+ O	+	-	-	-	+	-	+	-	-	O
Mixed acids - sulphuric - nitric - water	H_2SO_4 HNO_3 H_2O		50 % 31 % 19 %	20 40 60 80 100 120 140	+	O	-	-	-	+ +	-	+ +	-	O	O
Mixed acids - sulphuric - nitric - water	H_2SO_4 HNO_3 H_2O		10 % 87 % 43 %	20 40 60 80 100 120 140	-	-	-	-	-	O	-	-	-	-	-
Mixed acids - sulphuric - nitric - water	H_2SO_4 HNO_3 H_2O		48 % 49 % 43 %	20 40 60 80 100 120 140	+ O -	+	-	-	-	+ + +	-	+ + +	-	-	-
Mixed acids - sulphuric - phosphoric - phosphoric	H_2SO_4 H_3PO_4 H_2O		30 % 60 % 10 %	20 40 60 80 100 120 140	+ +	+ + +	-	+ + +	+ + +	+ + + +	+ + +	+ + +	-	+ O	+ O
N,N- Dimethylaniline	$C_6H_5N(CH_3)_2$	194	technically pure	20 40 60 80 100 120 140	-	-	-	+	+		+				
N- Methylpyrrolidon	C_5H_9NO	204		20 40 60 80 100 120 140	-	-	-	+	+	O	+	O			
Naphthalene	$C_{10}H_8$	218	technically pure	20 40 60 80 100 120 140	-	-		+	+	+	-	+	+	-	O

Aggressive media					Chemical resistance											
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM	
Nickel salts, aqueous, inorganic			≤ Saturated acid	20 40 60 80 100 120 140	+ + O	+ + +		+ + +	+ + +	+ + + + +	+ +	+ + + +	+ +	+ +	+ + +	
Nitrating acid	H_2SO_4 HNO_3 H_2O		65 % 20 % 15 %	20 40 60 80 100 120 140	+ O	O		-	-	+	-	+	-	-	-	
Nitric acid	HNO_3		6.3 %, aqueous	20 40 60 80 100 120 140	+ + +	+ + + +		+ + +	+ + O	+ + + + +	+ O	+ + + O	-	-	+ O -	
Nitric acid	HNO_3		≤ 25 %	20 40 60 80 100 120 140	+ + +	+ + +	-	+ + O	+ O	+ + + + +	+	+ +				
Nitric acid	HNO_3		65 %, aqueous	20 40 60 80 100 120 140	O O -	+ +	-	O -	-	+ + + O -	-	+ O -	-	-	O -	
Nitric acid	HNO_3		85 %	20 40 60 80 100 120 140	-	-	-	-	-	+ +	-	+	-	-	-	
Nitric acid	HNO_3		100 %	20 40 60 80 100 120 140	-	-	-	-	-	-	-	-	-	-	-	
Nitrobenzene	C_6H_5-NO_2	209	technically pure	20 40 60 80 100 120 140	-	-	-	+	+	+	O	+	-	-	-	
Nitrotoluene (o-, m-, p-)	$C_7H_7NO_2$	222 - 238	technically pure	20 40 60 80 100 120 140	-	-	-	+ O	O -	+ + O -	-	O -	O -	-	-	

Aggressive media					Chemical resistance											
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Nitrous acid	HNO_2			20	+	+	-	+	-	+	+	+			
				40	+	+				+					
				60						+					
				80											
				100											
				120											
				140											
Nitrous gases (Nitric oxide)	NOx		diluted, moist, anhydrous	20	+	+	-	O	O	+	O	+	O	+	+
				40											
				60											
				80											
				100											
				120											
				140											
Oleic acid	$C_{17}H_{33}COOH$		technically pure	20	+	O	-	+	+	+	-	+	O	-	-
				40	+			+	+	+		O	-		
				60	+			O	O	+		-			
				80						+					
				100						+					
				120						+					
				140											
Oleum	$H_2SO_4+SO_3$		10 % SO3	20	-	-	-	-	-	-	-	-	-	-	-
				40											
				60											
				80											
				100											
				120											
				140											
Olive oil				20	+	-	-	+	+	+	-	+	+	+	+
				40	+			+	+	+		+	+	+	+
				60	+			O	+	+		+	+	+	O
				80					+	+		+			-
				100											
				120											
				140											
Oxygen	O_2		technically pure	20	+	+		+	+	+	+	+	+	+	+
				40	+	+		+	+	+	+	+		+	+
				60	+	+		O	O	+	+	+		+	+
				80						+		+		+	+
				100						O		+			+
				120						O		+			
				140											
Ozone	O_3		up to 2 %, in air	20	+	O	-	O	O	O	O	+	-	O	+
				40											
				60											
				80											
				100											
				120											
				140											
Ozone	O_3		cold saturated, aqueous	20	+	O	-	O	O	O	-	+	-	O	+
				40											
				60											
				80											
				100											
				120											
				140											
Palm oil, palm nut oil				20	+	O		+	+	+	-	+	+	+	O
				40											
				60											
				80											
				100											
				120											
				140											

Aggressive media					Chemical resistance										
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Paraffin emulsions			usual commercial, aqueous	20 40 60 80 100 120 140	+ 	+ 	 	+ 	+ 	+ 	- 	+ 	+ 	+ 	+
Paraffin oil				20 40 60 80 100 120 140	+ 	+ 	O 	+ 	+ 	+ 	- 	+ 	+ 	+ 	O
Perchlorid acid	$HClO_4$		10 %, aqueous	20 40 60 80 100 120 140	+ 	+ 	 	+ 	+ 	+ 	+ 	+ 	- 	- 	+
Perchlorid acid	$HClO_4$		70 %, aqueous	20 40 60 80 100 120 140	+ 	- 	- 	 	- 	O 	- 	+ 	- 	- 	+
Perchloro-ethylene (Tetrachlorethylene)	$Cl_2C=CCl_2$	121	technically pure	20 40 60 80 100 120 140	- 	- 	 	O 	O 	+ + + O - 	- 	+ + + 	O - 	- 	-
Phenol	C_6H_5-OH	182	up to 10 %, aqueous	20 40 60 80 100 120 140	+ O 	O O 	- 	+ + O 	+ + + 	+ + + + + 	+ + O O 	+ + + O 	- 	- 	-
Phenol	C_6H_5-OH		up to 90 %, aqueous	20 40 60 80 100 120 140	O 	- 	- 	+ + O 	+ + + 	+ + O 	- 	+ O - 	- 	- O 	-
Phosgene	$COCl_2$		gaseous, technically pure	20 40 60 80 100 120 140	+ O O 	- 	- 	O 	O 	+ + 	+ 	+ + O 	+ + + 	+ O - 	+ O
Phosgene	$COCl_2$	8	liquid, technically pure	20 40 60 80 100 120 140	- 	- 	- 	- 	- 	- 	- 	+ 	O 	+ 	+

Aggressive media					Chemical resistance										
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Phosphoric acid	H_3PO_4		85 %, aqueous	20	+	+		+	+	+	+	+	-	+	+
				40	+	+		+	+	+	+	+		+	O
				60	+	+		+	+	+	O	+		O	-
				80		+			+	+		+			
				100						+		O			
				120						+					
				140											
Phosphoric acid	H_3PO_4		up to 95 %	20	+	+	-	+	+	+	O	+	-	-	-
				40	+	+		+	+	+		+			
				60		+				+		O			
				80						+					
				100											
				120											
				140											
Phosphorous chlorides:	PCl_3	175	technically pure	20	-	-	-	-	-	-		-	-	-	-
- ..trichloride	PCl_5	162		40											
- ..pentachloride	$POCl_3$	105		60											
- ..oxichloride				80											
				100											
				120											
				140											
Photographic developer			usual commercial	20	+	+	+	+	+	+	+	+	O	+	+
				40	+	+	+	+	+	+	+	+	O	+	+
				60	O	+	O	O		+					
				80		O									
				100											
				120											
				140											
Photographic emulsions				20	+	+	+	+	+	+	+	+	O	+	+
				40	+	+	+	+	+	+	+	+		+	+
				60		O				+					
				80											
				100											
				120											
				140											
Photographic fixer			usual commercial	20	+	+	+	+	+	+	+	+	+	+	+
				40	+	+	+	+	+	+	+	+	+	+	+
				60	O	+	O			+					
				80											
				100											
				120											
				140											
Phthalic acid	$C_6H_5(COOH)_2$	Fp., 208	saturated, aqueous	20	+	-	-	+	+	+	+	-	-	+	+
				40	O			+	+	+	O			+	+
				60	-			+	+	+				O	
				80						+					
				100						+					
				120											
				140											
Potassicim hydroxide	KOH		50 %	20	+	O		+	+	-	+	-	O	O	+
				40	+			+	+		+				
				60	+			+	O		+				
				80											
				100											
				120											
				140											
Potassium aluminium salts (alum), aqueous, inorganic	$KAl(SO_4)_2$		≤ Saturated acid	20	+	+		+	+	+	+		-	+	+
				40	+	+		+	+	+	+				
				60	+	+		+	+	+	+				
				80		+			+	+	+				
				100						+					
				120											
				140											

Aggressive media					Chemical resistance										
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Potassium persulphate (Potassium Peroxidsulfate)	$K_2S_2O_8$		all, aqueous	20 40 60 80 100 120 140	+ + O	+ + +		+ + +	+ + +	+ + + +	+ +	+ + + +	-	+	+
Potassium-hypochlorite	KOCl			20 40 60 80 100 120 140	+ O	O		O	O	O	+	O	O	O	O
Propane	$H_3C-CH_2-CH_3$		technically pure, gaseous	20 40 60 80 100 120 140	+	+		O	+	+		+	O	O	O
Propane	$H_3C-CH_2-CH_3$	-42	technically pure, liquid	20 40 60 80 100 120 140	+	-		+	+	+		+	O	O	O
Propanol, n- and iso-	C_3H_7OH	97 bzw . 82	technically pure	20 40 60 80 100 120 140	+ O O	-		+ + O	+ + O	+ + + O	+ + O	+	+	+	+
Propionic acid	CH_3CH_2COOH	141	50 %, aqueous	20 40 60 80 100 120 140	+ + O	O	-	+ + +	+ + +	+ + +	+ +	O	-	O -	O -
Propionic acid	H_3C-CH_2-COOH	141	technically pure	20 40 60 80 100 120 140	+ O	O	-	+ O O	+ O O	+ + +	+ O	+ + + O	-	-	-
Propylene glycol	$C_3H_8O_2$		< 50 %	20 40 60 80 100 120 140	+ + +	-		+ + +	+ + +	+ + +	+ +	+ + O	+ O -	+ +	+ + +
Propylene glycol	$C_3H_8O_2$	188	technically pure	20 40 60 80 100 120 140	+ + +	+	+	+ + +	+ + + +	+ + + + +	+ + +	+ + + O	+ + O	+ + O	+ + + O

Aggressive media					Chemical resistance										
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Pyridine	C_5H_5N	115	technically pure	20	-	-	-	+	O	+	O	-	-	-	-
				40				O	O	-					
				60				O	O						
				80											
				100											
				120											
				140											
Salicylic acid	$C_6H_4(OH)COOH$		saturated	20	+	+		+	+	+	+	+	+	+	+
				40	+			+	+	+	+				
				60	+			+	+	+	+				
				80						+					
				100											
				120											
				140											
Sea water				20	+	+	+	+	+	+	+	+	+	+	+
				40	+	+	+	+	+	+	+	+	+	+	+
				60	O	+	+	+	+	+	+	+	+	+	+
				80					+	+	+	+	+	O	O
				100					+	+	+	+	O	-	-
				120											
				140											
Silicic acid	$Si(OH)_4$			20	+	+		+	+		+	+	-	+	+
				40	+	+		+	+		+				
				60	+	+		+	+		+				
				80					+						
				100											
				120											
				140											
Silicone oil				20	+	+	+	+	+	+	+	+	+	+	+
				40	O	+		+	+	+	+	+	+	+	+
				60	-			+	+	+	+	+	+	O	
				80					+	+					
				100						+					
				120											
				140											
Silver salts, aqueous, inorganic			≤ Saturated acid	20	+	+	+	+	+	+	+	+	+	+	+
				40	+	+		+	+	+	+	+	+	+	+
				60	+	+		+	+	+	+	+	+	+	+
				80		+			+	+		+			
				100						+					
				120											
				140											
Sodium chlorite	$NaClO_2$		diluted, aqueous	20	+	O		O	O	O	O	+	-	O	+
				40											
				60											
				80											
				100											
				120											
				140											
Sodium hypochlorite	NaOCl		12.5 % active chlorine, aqueous	20	+	O	-	O	O	O	+	O	-	-	+
				40	+			O	O		+				
				60											
				80											
				100											
				120											
				140											
Sodium persulphate	$Na_2S_2O_8$		cold saturated, aqueous	20	+	+		+	+	+	+	+	-	+	+
				40	+	+		+	+	+	+	+			
				60	O	+		+	+	+		+			
				80						+		+			
				100											
				120											
				140											

Aggressive media					Chemical resistance											
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Sodium salts, aqueous, inorganic			≤ Saturated acid	20 40 60 80 100 120 140	+ + +	+ + + +		+ + +	+ + + +	+ + + + +	+ + +	+ + + +	+	+	+
Stannous chloride	$SnCl_2$		cold saturated, aqueous	20 40 60 80 100 120 140	+ O O	+ + O	+ +	+ + +	+ + + +	+ + + + +	+ O -	+ + +	+ + O	+ + +	+ + +
Starch solution	$(C_6H_{10}O_5)n$		all, aqueous	20 40 60 80 100 120 140	+ + +	+ + + +	+ +	+ + +	+ + +	+ + + + +	+ + +	+ + +	+ + +	+ + +	+ + +
Styrene	H_5C_6-CH=CH_2	145		20 40 60 80 100 120 140	-	-	-			+		+			
Succinic acid	HOOC-CH_2-CH_2-COOH	Fp., 185	aqueous, all	20 40 60 80 100 120 140	+ + +	+ + +	+	+ + +	+ + +	+ + +	+ + +	+ + + +	+ + +	+ + +	+ + +
Sulfurous acid	H_2SO_3		saturated, aqueous	20 40 60 80 100 120 140	+ + O	+ +		+ + +	+ + +	+ + + + +	+ -	+ + O -	- 	- 	O O -
Sulfuryl chloride	SO_2Cl_2	69	technically pure	20 40 60 80 100 120 140	-	-	-	-	-	O		+	-	O	+
Sulphur dioxide	SO_2		technically pure, liquid	20 40 60 80 100 120 140	-	-	-	-	-	-	-	O	-	-	O
Sulphur dioxide	SO_2		all, moist	20 40 60 80 100 120 140	+ + O	+ +	-	+ + +	+ + +	+ + + + +	+ O -	+ O -	-	-	O -

Aggressive media					Chemical resistance										
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Sulphuric acid	H_2SO_4	195	up to 80 %, aqueous	20 40 60 80 100 120 140	+ + +	+ + + +	-	+ + O	+ + O	+ + + + + O	O O -	+ + O -	-	-	+ O -
Sulphuric acid	H_2SO_4		96 %, aqueous	20 40 60 80 100 120 140	+ + O	+ + +	-	-	-	-	-	+ + +	-	-	-
Sulphuric acid	H_2SO_4	340	98 %	20 40 60 80 100 120 140	+ O	+ + O	-	-	-	-	-	O	-	-	-
Tannic acid			all, aqueous	20 40 60 80 100 120 140	+	+ + +		+ + +	+ + +			+	+	+	+
Tetrachlorethyle nesee Perchloro-ethylene	Cl_2C-CCl_2	121		20 40 60 80 100 120 140	-	-	-	-	-	+	-	+			
Tetrachloro-ethane	Cl_2CH-$CHCl_2$	146	technically pure	20 40 60 80 100 120 140	-	-	-	O	O	+ + O	-	O	-	-	-
Tetraethylene lead	$(C_2H_5)_4Pb$		technically pure	20 40 60 80 100 120 140	+	+	-	+	+	+	O	+	+	O	+
Tetrahydrofurane	C_4H_8O	66	technically pure	20 40 60 80 100 120 140	-	-	-	O	O	-	O	-	-	-	-
Tin salts, aqueous, inorganic			≤ saturated acid	20 40 60 80 100 120 140	+ + +	+ + + +		+ + +	+ + + +	+ + + + +	+ + +	+ + + +	+	+	+

Aggressive media					Chemical resistance										
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Toluene	C_6H_5-CH_3	111	technically pure	20 40 60 80 100 120 140	-	-	-	O	O	+	-	+	-	-	-
Trichloro-methane	$CHCl_3$	61	100 %	20 40 60 80 100 120 140						+		+			
Trichloroacetic acid	Cl_3-C-COOH		50 %, aqueous	20 40 60 80 100 120 140	+ O	-	-	+ + +	+ + O	+ + O -	O	-	-	-	-
Trichloroacetic acid	Cl_3-C-COOH	196	technically pure	20 40 60 80 100 120 140	O	-	-	+ O -	+ + O	O	O	-	-	-	-
Trichloroethane	Cl_3-C-CH_3	74	technically pure	20 40 60 80 100 120 140	-	-	-	O	O	+ +	-	+	-	-	-
Trichloroethylene	Cl_2C=CHCl	87	technically pure	20 40 60 80 100 120 140	-	-	-	-	O	+	-	+	-	-	-
Triethylamine	$N(CH_2$-$CH_3)_3$	89	technically pure	20 40 60 80 100 120 140	-	-	-	+	+	O -	-	-	-	-	-
Trifluoro acetic acid	F_3C-COOH		up to 50 %	20 40 60 80 100 120 140	-	-	-	+	+	+ O	O	-	-	-	-
Turpentine oil			technically pure	20 40 60 80 100 120 140	+ O	-	-	O O	-	+	-	+ + +	O	-	-

Aggressive media					Chemical resistance										
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Urea	H_2N-CO-NH_2	Fp., 133	up to 30 %, aqueous	20	+	+	+	+	+	+	+	+	+	+	+
				40	+	+	+	+	+	+	+	+	+	+	+
				60	O	+		+	+	+	+	+	+	+	+
				80		O				+					
				100						O					
				120											
				140											
Urine				20	+	+		+	+	+	+	+	+	+	+
				40	+	+		+	+	+	+	+	+	+	+
				60	O	+		+	+	+	+	+	+	+	+
				80						+					
				100						+					
				120											
				140											
Vinyl acetate	CH_2=CHOOCCH_3	73	technically pure	20	-	-	-	+	+	+	+	-	-	-	-
				40				+		-					
				60					O						
				80											
				100											
				120											
				140											
Vinyl chloride	CH_2=CHCl	-14	technically pure	20	-	-	-	-	-	+	-	+	-	-	
				40						+					
				60											
				80											
				100											
				120											
				140											
Waste gases containing - Alkaline				20	+	+		+	+	O	+	+	+	+	+
				40	+	+		+	+	O	+	+	+	+	+
				60	+	+		+	+	-	+	+	+	+	O
				80		+			+		+	O			-
				100								-			
				120											
				140											
Waste gases containing - Hydrochloric acid			all	20	+	+		+	+	+	+	+	O	+	+
				40	+	+		+	+	+	+	+	-	+	+
				60	+	+		+	O	+	+	+			+
				80		+				+	O	+			
				100						+		+			
				120						+					
				140											
Waste gases containing - Hydrogen fluoride			traces	20	+	+		+	+	+	O	+	+	+	+
				40	+	+		+	+	+	O	+	O	+	+
				60	+	+		+	+	+	O	+	-	O	+
				80		+				+		+			
				100						+					
				120											
				140											
Waste gases containing - Nitrous gases			traces	20	+	+		+	O	+	+	+	O	+	+
				40	+	+		O	O	+	O	+	-	+	+
				60	+	+		O	O	+	O	+		O	+
				80		+				+	O	+			O
				100						+		O			
				120											
				140											
Waste gases containing - Sulphur dioxide			traces	20	O	O		+	+	+	+	+	O	+	+
				40	+	+		+	+	+	+	+	-	+	+
				60							+	+			
				80							+	+			
				100								+			
				120											
				140											

Aggressive media					Chemical resistance										
Medium	Formula	Boiling point °C	Concentration	Temperature °C	PVC-U	PVC-C	ABS	PE	PP-H	PVDF	EPDM	FPM	NBR	CR	CSM
Water, drinking, chlorinated			≤ 0.1 ppm Cl2	20	+	+	+	+	+	+	+	+	+	+	+
				40	+	+	+	+	+	+	+	+	+	+	+
				60	+	+	+	+	+	+	O	+	O	+	+
				80					+	+		+			+
				100					+	+		+			
				120						+					
				140						+					
Water - distilled - deionised	H_2O	100		20	+	+	+	+	+	+	+	+	+	+	+
				40	+	+	+	+	+	+	+	+	+	+	+
				60	+	+	+	+	+	+	O	+	+	+	+
				80		+			+	+	-	+	+		+
				100					+	+		+	+		
				120						+					
				140						+					
Xylene	$C_6H_4(CH_3)_2$	138 - 144	technically pure	20	-	-	-	-	-	+	-	+	-	-	-
				40						+		O			
				60						O		-			
				80						-					
				100											
				120											
				140											
Zinc salts, aqueous, inorganic			≤ Saturated acid	20	+	+	+	+	+	+	+	+			
				40	+	+		+	+	+	+	+			
				60	+	+		+	+	+	+	+			
				80		+			+	+		+			
				100						+					
				120											
				140											