TECHNIQUES DES FLUIDES
7, Rue de la Fosse aux Loups
95100 ARGENTEUIL
Tél. : 01 34 11 13 73 / Fax : 01 34 11 96 35
www.techniquesfluides.fr

Chemical resistance table

AFFETTI
Pumps for corrosive liquids

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
Acetaldehyde	CH_3CHO	20	technically pure	0,79	20	–	+	+	O	–	O	\	\	\	\
					40		O	O	O		–				
					60			O							
					80										
					100										
					120										
			40%, aqueous		20	\	\	+	+	O	O	\	\	\	\
			solution		40			O	+						
					60			O	+						
					80				O						
					100				–						
					120										
Acetic acid	CH_3COOH	117	technically pure,	1,05	20	–	–	O	O	O	+	\	–	+	\
			glacial		40			O	O	–	O			+	
					60			O	O		O			+	
					80				–		O			–	
					100						–				
					120										
			50%, aqueous		20	+	+	+	+	+	+	+	–	+	\
					40	+	+	+	+	+	+	+		+	
					60	+	–	+	+	O	+	+		+	
					80	+			O		O	–		–	
					100	–			O		O				
					120										
			10%, aqueous	1,01	20	+	+	+	+	+	+	+	O	+	\
					40	+	+	+	+	+	+	+	O	+	
					60	+	+	+	+	+	+	+	O	+	
					80	+	+		+		+	–	O	+	
					100	O	–				+				
					120										
Acetic acid anhydride	$(CH_3CO)_2O$	139	technically pure	1,08	20	–	+	+	+	–	O	\	\	\	\
					40		O	O	O		–				
					60			O	O						
					80				–						
					100										
					120										
Acetic ether	see Ethyl acetate														
Acetone	CH_3COCH_3	56	technically pure	0,79	20	–	+	+	+	–	O	\	\	\	\
					40		+	+	+		–				
					60		–	O	+						
					80				O						
					100										
					120										
			10%, aqueous		20	+	+	+	+	–	+	\	\	\	\
					40	+	+	+	+		+				
					60	+	+	+	+		+				
					80	+	+				O				
					100	–	–				–				

+ Resistant
O Conditionally resistant
– Non-resistant
\ Consult Factory

Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					120										
Acrylic acid	$CH_2CHCOOCH$	142	technically pure	1,05	20	\	\	O	O	–	+	\	\	\	\
					40						+				
					60										
					80										
					100										
					120										
Acrylonitrile	CH_2CHCN	77	technically pure	0,81	20	–	+	+	+	–	+	\	\	\	\
					40		O	+	+		O				
					60			+	+		–				
					80										
					100										
					120										
Adipic acid	$HOOC(CH_2)_4COOH$		saturated,	1,36	20	\	+	+	+	+	+	\	\	\	\
			aqueous		40		+	+	+	+	+				
					60		+	+	+		+				
					80		+				+				
					100		+								
					120		+								
Alcohol, Butyl	$CH_3(CH2)_2CH_2OH$		technically pure	0,81	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	–	+	+	O	O	+				
					80		+		O		+				
					100		–		O		O				
					120										
Alcohol, Isobutyl	$CH_2H_5CH(OH)CH_3$	100	technically pure	0,81	20	+	\	+	+	+	+	\	\	\	\
					40	+		+	+	+	+				
					60	–		+	O	O	+				
					80				O		+				
					100				O						
					120										
Allyl alcohol	CH_2CHCH_2OH	97	96%	0,85	20	–	+	+	+	O	+	\	\	\	\
					40		+	+	+	–	+				
					60		–	+	+						
					80										
					100										
					120										
Allyl chloride	CH_2CHCH_2Cl	45	technically pure	0,94	20	+	+	O	–	–	+	\	\	\	\
					40	–	+	–			+				
					60		+				+				
					80		–				+				
					100						+				
					120										
Alaun	see Potassium/aluminium														
	sulphate														
Aluminium chloride	$AlCl_3$	183	all, aqueous	2,44	20	+	\	+	+	\	\	\	\	\	\
					40	+		+	+						
					60	+		+	+						
					80	+			+						
					100	+			+						
					120	+									
			saturated,		20	\	\	+	+	+	+	\	\	\	\
			aqueous		40			+	+	+	+				
					60			+	+	+	+				
					80				+		+				

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Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					100				+		+				
					120						+				
Aluminium fluoride	AlF_3		all, aqueous	2,88	20	+(1)	+	+	+	+	+	\	\	\	\
					40	-	O	+	+	+	+				
					60			+	+	+	+				
					80						+				
					100						+				
					120										
			saturated,		20	+(1)	+	+	+	+	+	\	\	\	\
			aqueous		40	-	O	+	+	+	+				
					60			+	+	+	+				
					80						+				
					100						+				
					120										
Aluminium hydroxide	$Al(OH)_3$		all, aqueous	2,42	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+		+				
					80	+	+				+				
					100	–	–				+				
					120										
Aluminium nitrate	$Al(NO_3)_3$	135	saturated,		20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+			+	+				
					80	+	+				+				
					100	O	+				+				
					120		–								
Aluminium sulphate	$Al_2(SO_4)_3$	770	all, aqueous	2,71	20	+	\	+	+	+	+	\	\	\	\
					40	+		+	+	+	+				
					60	+		+	+	O	+				
					80	+			+		+				
					100	+			+		+				
					120	+					+				
Ammonia	NH_3	–33	liquid,	0,77	20	\	\	+	+	–	O	\	\	\	\
			technically pure		40						O				
					60						O				
					80						–				
					100										
					120										
Ammonium acetate	CH_3COONH_4		65%, aqueous	1,17	20	+	+	+	+	+	+	\	\	\	\
					40	–	+	+	+	O	+				
					60		+	+	+	O	+				
					80		+		+						
					100		+		+						
					120		+								
Ammonium carbonate	$(NH_4)_2CO_3$		all, aqueous		20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	–	+		+		+				
					100		+		+		+				
					120		–								
Ammonium chloride	NH_4Cl	350	aqueous,	1,52	20	+	+	+	+	+	+	\	\	\	\
			cold saturated		40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+		+		+				
					100	O	+		+		+				
					120		–								

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Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
Ammonium citrate	$(NH_4)_2C_6H_6O_7$		all, aqueous	1,48	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+			O	+				
					80	–	+				+				
					100		+				+				
					120		+								
Ammonium hydrogen fluoride	NH_4HF_2		50%, aqueous		20	+(1)	+	+	+	+	+	\	\	\	\
					40	+(1)	O				+				
					60	+(1)					+				
					80	–									
					100										
					120										
Ammonium hydroxide	NH_4OH		35%, aqueous		20	–	+	+	+	+	O	\	\	\	\
					40		+								
					60		+								
					80		O								
					100										
					120										
		38	25%, aqueous	0,91	20	+	+	+	+	+	+	\	\	\	\
					40	O	+	+	+	+	O				
					60		+	+	+						
					80		O								
					100										
					120										
			10%, aqueous		20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+						
					80	–	+								
					100		–								
					120										
Ammonium meta-phosphate	NH_4PO_3		aqueous, cold saturated	2,2	20	\	\	+	+	+	+	\	\	\	\
					40			+	+		+				
					60			+	+		+				
					80						+				
					100						+				
					120										
Ammonium nitrate	NH_4NO_3	170	aqueous, saturated	1,73	20	+	\	+	+	+	+	\	\	\	\
					40	+		+	+	+	+				
					60	+		+	+	+	+				
					80	–			+		+				
					100				+		+				
					120										
Ammonium persulphate	$(NH_4)_2S_2O_8$	120	aqueous, saturated	1,98	20	+	+	+	+	+	+	\	\	\	\
					40	+	O	+			+				
					60	+					+				
					80	+					+				
					100	O					+				
					120										
Ammonium phosphate	$(NH_4)_3PO_4$		all, aqueous		20	+	\	+	+	+	+	\	\	\	\
					40	+		+	+	+	+				
					60	+		+	+	+	+				
					80	+			+		+				
					100	O			+		+				
					120										
Ammonium sulphate	$(NH_4)_2SO_4$		all, aqueous		20	+	+	+	+	+	+	\	\	\	\

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Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					40	+	+	+	+	+	+				
					60	+	+	+	+		+				
					80	+	+		+		+				
					100	+	+		+		+				
					120	+	+								
Ammonium sulphide	$(NH_4)_2S$		aqueous,	1,68	20	\	\	+	+	+	+	\	\	\	\
			saturated		40			+	+	+	+				
					60			+	+	+	+				
					80				+						
					100										
					120										
Ammonium thiocyanate	NH_4CNS		20%, aqueous		20	+	\	+	+	+	+	\	\	\	\
					40	+		+	+	+	+				
					60	+		+	+	+	+				
					80	+					+				
					100	O					+				
					120										
Ammonium thiosulfate			60%, aqueous		20	+	\	\	\	\	\	\	\	\	\
					40	+									
					60	+									
					80										
					100										
					120										
Amyl acetate	$CH_3COOC_5H_{11}$	150	technically pure	0,88	20	+	+	+	+	–	+	\	\	\	\
					40	O	+	+	O		+				
					60		+	O	–		O				
					80		–				O				
					100										
					120										
Amyl alcohol	$C_5H_{11}OH$	138	technically pure	0,81	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	O	O	O	+				
					80		O				+				
					100						+				
					120						O				
Amyl chloride	$C_5H_{11}Cl$	108	technically pure	0,88	20	+	+	O	O	–	+	\	\	\	\
					40	+	O	–	–		+				
					60	–					+				
					80						+				
					100						O				
					120						O				
Aniline	$NH_2C_6H_5$	184	technically pure	1,02	20	\	+	+	–	–	+	\	\	\	\
					40		+	+			O				
					60		+	O			–				
					80		–								
					100										
					120										
Aniline hydrochloride	$C_6H_5NH_3Cl$	245	technically pure	1,22	20	\	\	+	–	O	+	\	\	\	\
					40										
					60										
					80										
					100										
					120										
			diluted solution		20	\	\	+	+	–	+	\	\	\	\
					40			+	+						

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(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					60			+	+						
					80										
					100										
					120										
			aqueous,	1,22	20	\	\	+	+	–	+	\	\	\	\
			saturated		40			+	+						
					60			+	+						
					80										
					100										
					120										
Anon	see Cyclohexanone														
Antimony trichloride	$SbCl_3$	200	technically pure	3,14	20	\	+	+	–	–	+	\	\	\	\
					40		+				+				
					60		+				+				
					80		–								
					100										
					120										
			90%, aqueous		20	\	+	+	+	+	+	\	\	\	\
					40		+	+	+	+	+				
					60		+	+	+	+	0				
					80		–								
					100										
					120										
Aqua regia	HNO_3 19-22% + HCl 25-28%	108		1,21	20	\	\	O	–	O	+	\	\	\	\
					40			–			+				
					60						O				
					80						O				
					100						–				
					120										
Arsenic acid	H_3AsO_4		80%, aqueous	1,15	20	+	\	+	+	+	+	\	\	\	\
					40	+		+	+	+	+				
					60	+		+	+	O	+				
					80	+					+				
					100	–					+				
					120						+				
Barium carbonate	$BaCO_3$		aqueous,	4,3	20	+	+	+	+	+	+	\	\	\	\
			saturated		40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+		+		+				
					100	–	+				+				
					120		+								
Barium chloride	$BaCl_2$		aqueous,	3,86	20	+	+	+	+	+	+	\	\	\	\
			saturated		40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+		+		+				
					100	O	+				+				
					120		+								
Barium hydroxide	$Ba(OH)_2$		aqueous,	4,5	20	+	\	+	+	+	O	\	\	\	\
			saturated		40	+		+	+	+	O				
					60	+		+	+	+	O				
					80	–					–				
					100										
					120										
Barium sulfate	$BaSO_4$		all, aqueous	4,25	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				

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					60	+	+	+	+	+	+				
					80	+	+		+		+				
					100	+	+		+		+				
					120	+	+				+				
Barium sulfide	BaS		aqueous,	4,36	20	+	+	+	+	+	+	\	\	\	\
			saturated		40	+	+	+	+	+	+				
					60	+	+	+	+	+	O				
					80	+	+								
					100	–	+								
					120		+								
Battery acid	see Sulphuric acid 40%														
Beer			usual		20	+	+	+	+	+	+	\	\	\	\
			commercial		40	+	+	+	+	+	+				
					60	–	+	+	+	+	+				
					80		+				+				
					100		+				+				
					120		+								
Benzaldehyde	C_6H_5CHO	180	technically pure	1,08	20	–	+	+	+	–	O	\	\	\	\
					40		+	+	O		–				
					60		+	+	O						
					80		+								
					100		–								
					120										
Benzene	C_6H_6	80	technically pure	0,88	20	–	+	O	O	–	+	\	\	\	\
					40		+	O	O		O				
					60		+	–	–		–				
					80		+								
					100		–								
					120										
Benzene sulfonic acid	$C_6H_5SO_3H$		technically pure		20	+	+	+	+	+	+	\	\	\	\
					40	+	–				+				
					60	+									
					80	–									
					100										
					120										
			40%, aqueous		20	+	+	\	+	\	\	\	\	\	\
					40	+	O		+						
					60	+									
					80	–									
					100										
					120										
Benzoic acid	C_6H_5COOH	249	all, aqueous	1,32	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	O	+				
					80	+	+		+		+				
					100	O	–		+		+				
					120						+				
Benzyl alcohol	$C_5H_5CH_2OH$	205	technically pure	1,05	20	+	+	+	+	O	+	\	\	\	\
					40	–	+	+	+		+				
					60		+	+	O		+				
					80		–				+				
					100						+				
					120						O				
Benzyl chloride	$C_6H_5CH_2Cl$	197	technically pure	1,24	20	–	+	O	O	–	+	\	\	\	\
					40		+	O			O				

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					60		+	O							
					80		–								
					100										
					120										
Black liquor			all, aqueous		20	+	+	\	\	+	+	\	\	\	\
					40	+	+			+	+				
					60	+	+				+				
					80	+	+				O				
					100	–	+								
					120		–								
Bleaching lye	see Sodium hypochlorite														
Borax	$Na_2B_4O_7$	200	all, aqueous	1,73	20	+	\	\	\	\	\	\	\	\	\
					40	+									
					60	+									
					80	+									
					100	O									
					120										
Boric acid	H_3BO_3	170	aqueous	1,52	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+				+				
					100	O	+				+				
					120		+								
Brine	$NaCl + Cl_2$		aqueous,		20	+	\	O	O	+	+	\	\	\	\
			saturated		40	+				+	+				
					60	+				O					
					80	+									
					100	O									
					120										
Bromine, liquid	Br_2	59	technically pure	3,12	20	–	–	–	–	–	+	\	\	\	\
					40						+				
					60						+				
					80						+				
					100										
					120										
Bromine water			saturated,		20	\	\	O	O	+	+	\	\	\	\
			aqueous		40			–	O	O	+				
					60				–	–	+				
					80						+				
					100						+				
					120										
Butadiene			all, aqueous		20	\	+	\	\	\	\	\	\	\	\
					40		+								
					60		+								
					80		+								
					100		–								
					120										
Butane	C_4H_{10}	-1	technically pure	0,58	20	\	\	+	+	+	+	\	\	\	\
					40			+	+	+	+				
					60			+	+		+				
					80										
					100										
					120										
Butanediol	$HO(CH_2)_4OH$	230	technically pure	1,02	20	\	\	+	+	–	+	\	\	\	\
					40			+	+		+				

+ Resistant
O Conditionally resistant
– Non-resistant
\ Consult Factory

Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					60			+			+				
					80						+				
					100										
					120										
Butyl acetate	$CH_3COOC_4H_9$	126	technically pure	0,88	20	+	+	+	O	–	+	\	\	\	\
					40	–	+	O	–		O				
					60		+	O			–				
					80		O								
					100										
					120										
Butylene glycol			technically pure		20	+	+	\	\	\	\	\	\	\	\
					40	+	+								
					60	+	+								
					80	+	+								
					100	–	+								
					120		+								
Butyric acid	$CH_3(CH_2)_2COOH$	164	technically pure	0,96	20	+	\	+	+	–	+	\	\	\	\
					40	+		+	+		+				
					60	–		O			+				
					80						O				
					100										
					120										
Cadmium chloride	$CdCl_2$ x 1/2 H_2O	967	cold saturated,	3,33	20	+	\	+	+	+	+	\	\	\	\
			aqueous		40	+		+	+	+	+				
					60	+		+	+	+	+				
					80	+			+						
					100	O									
					120										
Cadmium cyanide	$Cd(CN)_2$	200	cold saturated,		20	+	\	+	+	+	–	\	\	\	\
			aqueous		40	+		+	+	+					
					60	+		+	+	+					
					80	+			+						
					100	–									
					120										
Calcium acetate	$Ca(CH_3COO)_2$		cold saturated,	1,5	20	\	\	+	+	+	+	\	\	\	\
			aqueous		40			+	+	+	+				
					60			+	+	+	+				
					80				+		+				
					100						+				
					120										
Calcium bisulphite	$Ca(HSO_3)_2$		All, aqueous		20	+	+	\	\	\	\	\	\	\	\
					40	+	O								
					60	+									
					80	+									
					100	O									
					120										
Calcium carbonate	$CaCO_3$		cold saturated,	2,6	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+		+		+				
					100	–	+		+		+				
					120		–				+				
Calcium chlorate	$Ca(ClO_3)_2$		cold saturated,	2,71	20	+	+	O	O	+	O	\	\	\	\
			aqueous		40	+	+	O	O	+	O				
					60	+	+	O	O		O				
					80	+	+				O				

+ Resistant
O Conditionally resistant
– Non-resistant
\ Consult Factory

Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					100	O	–								
					120										
Calcium chloride	$CaCl_2$		cold saturated,	2,15	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+		+		+				
					100	O	+		+		+				
					120		+								
Calcium hydroxide			100%		20	+	\	\	\	\	\	\	\	\	\
					40	+									
					60	+									
					80	+									
					100	O									
					120										
			25%		20	+	\	\	\	\	\	\	\	\	\
					40	+									
					60	+									
					80	–									
					100										
					120										
			15%		20	+	+	\	\	\	\	\	\	\	\
					40	+	+								
					60	+	+								
					80	–	+								
					100		+								
					120		–								
Calcium hypochlorite	$Ca(OCl)_2$	175	all, aqueous	2,35	20	+(2)	–	O	O	+	O	\	\	\	\
					40	+(2)		O	O	+	O				
					60	+(2)		O	O	O	O				
					80	+(2)									
					100	–									
					120										
Calcium nitrate	$Ca(NO_3)_2$	45	cold saturated,	1,82	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+		+		+				
					100	O	+				+				
					120		–								
Calcium sulfate	$CaSO_4$		all, aqueous	2,31	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+				+				
					100	O	+				+				
					120		+								
Calcium sulfite	$Ca(SO_3)_2 \times 1/2\ H_2O$		cold saturated,		20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	O	+	+	+	+				
					60	+		+	+	+	+				
					80	+			+		+				
					100	O									
					120										
Cane sugar	$C_{12}H_{22}O$		cold saturated,	1,59	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+	+	+		+				
					80	+	+								
					100	–	+								
					120		+								

+ Resistant
O Conditionally resistant
– Non-resistant
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Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
Caprylic acid	$CH_3(CH_2)_6COOH$	240	technically pure	0,91	20	+	+	–	–	O	+	\	\	\	\
					40	+	O			–	+				
					60	+					+				
					80	+					+				
					100	O					O				
					120										
Carbon disulfide	CS_2		technically pure		20	–	+	\	\	\	\	\	\	\	\
					40		+								
					60		+								
					80		–								
					100										
					120										
Carbon tetrachloride	CCl_4	77	technically pure	1,59	20	+	+	–	–	–	+	\	\	\	\
					40	+	+				+				
					60	+	+				+				
					80	+	O				+				
					100	–					+				
					120										
Carbonic acid	H_2CO_3		cold saturated,		20	\	+	+	+	+	+	\	\	\	\
			aqueous		40		+	+	+	+	+				
					60		+	+	+	+	+				
					80		–				+				
					100						+				
					120						+				
Castor oil			technically pure	0,96	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+		+				
					80	O	+				+				
					100		+								
					120		+								
Caustic potash solution	KOH		50%, aqueous	2,04	20	\	\	+	+	+	O	\	\	\	\
(potassium hydroxide)					40			+	+	+	O				
					60			+	+	O	O				
					80				O						
					100										
					120										
			30%, aqueous		20	+	\	+	+	+	O	\	\	\	\
					40	O		+	+	+	O				
					60			+	+	O	–				
					80				+						
					100				+						
					120										
			4%, aqueous		20	+	\	+	+	+	O	\	\	\	\
					40	O		+	+	+	O				
					60			+	+		–				
					80				+						
					100				+						
					120										
			2%, aqueous		20	+	\	+	+	+	O	\	\	\	\
					40	O		+	+	+	O				
					60			+	+		O				
					80				+						
					100				+						
					120										
Caustic soda	NaOH		50%, aqueous		20	+	+	+	+	+	O	+	–	+	\

+ Resistant
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Note:
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(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					40	+	+	+	+	+	O	+		+	
					60	+	+		+		O	+		+	
					80	–	+							+	
					100		+							+	
					120		O							+	
			25%, aqueous		20	+	+	+	+	+	O	+	–	+	\
					40	+	+	+	+	+	O	+		+	
					60	+	+	+	+	O	O	+		+	
					80	–	+		+					+	
					100		+							+	
					120		–							+	
			10%, aqueous		20	+	+	+	+	+	O	+	–	+	\
					40	+	+	+	+	+	O	+		+	
					60	+	+	+	+	O	O	+		+	
					80	–	+		+					+	
					100		+							+	
					120									+	
			5%, aqueous		20	+	+	+	+	+	O	+	–	+	\
					40	+	+	+	+	+	O	+		+	
					60	+	+	+	+	+	O	+		+	
					80	–	+		+					+	
					100		–		+					+	
					120									+	
Chloral hydrate	$Cl_3CCH(OH)_2$	98	technically pure	1,9	20	\	\	+	O	\	–	\	\	\	\
					40			+	–						
					60			O							
					80										
					100										
					120										
Chlorethanol	ClCH2–CH2OH	129	technically pure		20	\	\	+	+	–	+	\	\	\	\
					40			+	+		O				
					60			+	+		O				
					80						–				
					100										
					120										
Chloric acid	$HClO_3$	40	10%, aqueous	1,28	20	\	\	O	O	+	+	\	\	\	\
					40			O	O	O	+				
					60				O	O	+				
					80				–						
					100										
					120										
			20%, aqueous		20	\	\	O	O	+	+	\	\	\	\
					40			–	–	O	+				
					60					O	+				
					80										
					100										
					120										
Chlorine dioxide	ClO_2	11	2%, aqueous		20	+	\	–	O	O	O	\	\	\	\
					40	+					O				
					60	+									
					80	+									
					100	–									
					120										
Chlorine water	Cl_2		cold saturated,		20	+	–	O	O	+	+	\	\	\	\
			aqueous		40	+		O	O	O	+				
					60	+				–	+				

+ Resistant
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Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					80	+					+				
					100	–					O				
					120										
Chloroacetic acid	$ClCH_2COOH$	188	technically pure	1,4	20	\	\	+	+	O	+	\	\	\	\
					40			+	+	–	+				
					60			+	+						
					80										
					100										
					120										
			50%, aqueous		20	+	+	+	+	+	+	\	\	\	\
					40	O	O	+	+	+	+				
					60			+	+	O	+				
					80						+				
					100						+				
					120										
Chloro benzene	ClC_5H_5	132	technically pure	1,11	20	+	+	O	O	–	+	\	\	\	\
					40	–	+	–	–		+				
					60		+				O				
					80		+				O				
					100		–				–				
					120										
Chloro ethanol	$HOCH_2CH_2Cl$	129	technically pure	1,2	20	\	\	+	+	–	+	\	\	\	\
					40			+	+		+				
					60			+	+						
					80										
					100										
					120										
Chloroform	$CHCl_3$	62	technically pure	1,48	20	–	+	O	O	–	+	\	\	\	\
					40		+	O	–		+				
					60		+	–			+				
					80		+				+				
					100		–				+				
					120										
Chloromethane	see Methyl chloride														
Chlorosulphonic acid	$HOSO_2Cl$	152	technically pure	1,75	20	–	+	–	–	O	O	\	\	\	\
					40		–			–	–				
					60										
					80										
					100										
					120										
Chrome alum	$KCr(SO_4)_2$		cold saturated,	1,83	20	\	\	+	+	+	+	\	\	\	\
(chromium potassium			aqueous		40			+	+	+	+				
sulphate)					60			+	+	+	+				
					80						+				
					100						+				
					120										
Chromic acid	CrO_3		cold saturated,	2,7	20	–	–	O	O	O	+	\	\	\	\
			aqueous		40			O	O	O	+				
					60			–	–	O	+				
					80										
					100										
					120										
			50%, aqueous		20	–	–	O	O	O	+	\	\	\	\
					40			O	O	O	+				
					60			–	–	O	+				

+ Resistant
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Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					80						+				
					100						O				
					120										
			40%, aqueous		20	–	–	O	O	O	+	\	\	\	\
					40			O	O	O	+				
					60			–	–	O	+				
					80						+				
					100						O				
					120										
			30%, aqueous		20	–	–	O	O	O	+	\	\	\	\
					40			O	O	O	+				
					60			–	–	O	+				
					80						+				
					100						O				
					120										
			20%, aqueous		20	+	–	O	O	+	+	\	\	\	\
					40	+		O	O	+	+				
					60	+		O	O	O	+				
					80	–			–		+				
					100										
					120										
			10%, aqueous		20	+	+	O	O	+	+	\	\	\	\
					40	+	–	O	O	+	+				
					60	+		O	O	O	+				
					80	–			–		+				
					100										
					120										
			1%, aqueous		20	+	+	O	O	+	+	\	\	\	\
					40	+	–	O	O	+	+				
					60	+		O		+	+				
					80	–					+				
					100										
					120										
Citric acid	$C_3H_4OH(COOH)_3$	153	cold saturated,	1,66	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+		+		+				
					100	O	+								
					120		–								
Coconut fat alcohol			technically pure		20	\	\	+	+	+	+	\	\	\	\
					40			+	+	+	+				
					60			O	O	+	+				
					80										
					100										
					120										
Coconut oil			technically pure	0,89	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+		+				
					60	+	+	O	+		+				
					80	+	+				+				
					100	–	+								
					120		+								
Cooking salt	see Sodium chloride														
Copper chloride	CuCl		cold saturated,		20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+				+				

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Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					80	+	+				+				
					100	+	+				+				
					120	+	–								
Copper cyanide	$Cu(CN)_2$		cold saturated,		20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+		+		+				
					100	O	+				+				
					120		–								
Copper fluoroborate	$Cu(BF_4)_2$		aqueous		20	\	\	–	+	+	+	\	\	\	\
					40						+				
					60						+				
					80										
					100										
					120										
Copper fluoride	CuF_2	1100	cold saturated,	2,93	20	\	+	+	+	+	+	\	\	\	\
			aqueous		40		+				+				
					60		+				+				
					80		+				+				
					100		+				+				
					120		–								
Copper nitrate	$Cu(NO_3)_2 \times 3H_2O$	1100	cold saturated,	2,32	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+		+		+				
					100	O	O				+				
					120										
Copper sulfate	$CuSO_4$		all, aqueous	3,6	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+				+				
					100	+	+				+				
					120	+	+								
Corn oil		321	technically pure	0,92	20	+	+	+	+	–	+	\	\	\	\
					40	+	+	O	O		+				
					60	+	+	O	O		+				
					80	+	+				+				
					100	O	+								
					120		+								
Cresol	$H_3CC_6H_4OH$	202	technically pure	1,02	20	\	\	+	+	–	+	\	\	\	\
					40			+	O		+				
					60			O	O		+				
					80						O				
					100						O				
					120										
Crotonic aldehyde	$CH_3CHCHCOOH$	185	dilute solution	1,1	20	\	\	–	–	+	–	\	\	\	\
					40										
					60										
					80										
					100										
					120										
Crude oil			technically pure		20	+	+	O	+	+	+	\	\	\	\
					40	+	+	O	O		+				
					60	+	+	–	–		+				
					80	+	+				+				
					100	+	+				+				

+ Resistant
O Conditionally resistant
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Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					120	+	+				+				
Cumene			technically pure		20	+	\	O	O	–	+	\	\	\	\
					40	+		O	O						
					60	O		O	O						
					80										
					100										
					120										
Cyclohexane	C_6H_{12}	81	technically pure	0,79	20	+	+	+	+	–	+	\	\	\	\
					40	+	+	+	O		+				
					60	+	+	O	O		+				
					80	–	O				+				
					100						+				
					120						+				
Cyclohexanol	$C_6H_{11}OH$	161	technically pure	0,96	20	\	+	+	+	+	+	\	\	\	\
					40		+	+	+	+	+				
					60		+	+	O	O	+				
					80		+		–		+				
					100		–				O				
					120										
Cyclohexanone	$C_6H_{10}O$	155	technically pure	0,95	20	\	+	+	O	–	O	\	\	\	\
					40		+	+	O		O				
					60		–	O	O		–				
					80										
					100										
					120										
Detergents			for usual		20	+	\	\	\	\	\	\	\	\	\
					40	+									
					60	+									
					80	+									
					100	–									
					120										
Dextrine			dilute solution		20	\	\	+	+	+	+	\	\	\	\
					40			+	+	+	+				
					60			+	+	+	+				
					80						+				
					100						+				
					120						+				
Dextrose	see Glucose														
Diacetone alcohol	$(CH_3)_2C(OH)CH_2COCH_3$	168	technically pure	0,93	20	\	\	–	+	–	–	\	\	\	\
					40										
					60										
					80										
					100										
					120										
Dibromo benzene	$C_6H_5Br_2$	220	technically pure	1,95	20	\	\	–	–	–	+	\	\	\	\
					40						+				
					60						+				
					80						+				
					100						O				
					120						–				
Dibutyl ether	$C_4H_9OC_4H_9$	142	technicaly pure	0,77	20	+	+	O	O	+	+	\	\	\	\
					40	+	+	O			+				
					60	–	–	–			+				
					80						+				
					100										

+ Resistant
O Conditionally resistant
– Non-resistant
\ Consult Factory

Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					120										
Dibutyl phthalate	$H_9C_4COOC_6H_4COOC_4H_9$	340	technically pure	1,05	20	+	\	+	+	–	+	\	\	\	\
					40	+		+	O		O				
					60	+		O	O		O				
					80	+					O				
					100	–					O				
					120						–				
Dibutyl sebazate	$H_9C_4OCO(CH_2)_8COOC_4H_9$	344	technically pure	0,94	20	+	\	+	+	–	O	\	\	\	\
					40	+					–				
					60	+									
					80	–									
					100										
					120										
Dichloroacetic acid	$Cl_2CHCOOH$	194	technically pure	1,5	20	\	\	O	O	+	+	\	\	\	\
					40			O		O	+				
					60			O		–	O				
					80						–				
					100										
					120										
			cold saturated,		20	\	\	+	+	+	+	\	\	\	\
			aqueous		40			+	+	O	+				
					60			+	+	–	+				
					80						O				
					100						–				
					120										
Dichlorobenzene	$C_6H_4Cl_2$	181	technically pure	1,31	20	+	+	O	O	–	+	\	\	\	\
					40	O	+				+				
					60		+				+				
					80		+				O				
					100		–				–				
					120										
Dichloroethane	see Ethylene chloride														
Dichloroethylene	CHClCHCl	48	technically pure	1,26	20	–	+	–	–	–	+	\	\	\	\
					40		+				+				
					60		+				O				
					80		+				O				
					100		–				–				
					120										
Dichloropropene	$CH_2ClCClCH_2$	94	technically pure	1,21	20	–	+	–	–	–	O	\	\	\	\
					40		+				–				
					60		+								
					80		+								
					100		–								
					120										
Diesel oil					20	\	\	+	O	+	+	\	\	\	\
					40			O	–	+	+				
					60			O		O	+				
					80						+				
					100						+				
					120										
Diethanolamine	$(HOCH_2CH_2)_2NH$	268	technically pure	1,09	20	\	+	+	+	–	–	\	\	\	\
					40		O		+						
					60										
					80										
					100										

+ Resistant
O Conditionally resistant
– Non-resistant
\ Consult Factory

Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					120										
Diethylamine	$(C_2H_5)_2NH$	56	technically pure	0,71	20	\	+	+	+	–	+	\	\	\	\
					40		O				O				
					60						–				
					80										
					100										
					120										
Diethylene glycol	$HOCH_2CH_2OCH_2CH_2OH$	245	technically pure	1,12	20	+	+	+	+	–	–	\	\	\	\
					40	+	+	+	+						
					60	+	+	+	+						
					80	+	+								
					100	O	+								
					120		+								
Diethylene triamine	$NH_2C_2H_4NHC_2H_4NH_2$	207		0,96	20	\	+	+	–	–	+	\	\	\	\
					40		+	O			O				
					60		–	–			–				
					80										
					100										
					120										
Di-isobutyl ketone	$(CH_3)_2CHCH_2COCH_2CH(CH_3)_2$	168	technically pure	0,81	20	+	\	+	+	–	+	\	\	\	\
					40	+		O	O		+				
					60	–		–	–		O				
					80						–				
					100										
					120										
Dimethyl aniline	$C_6H_5N(CH_3)_2$	194	technically pure	0,96	20	\	\	–	–	–	+	\	\	\	\
					40						+				
					60						O				
					80						–				
					100										
					120										
Dimethyl formamide	$HCON(CH_3)_2$	153	technically pure	0,94	20	–	+	+	+	–	–	\	\	\	\
					40		O	+	+						
					60			O	+						
					80				O						
					100										
					120										
Dimethyl amine	CH_3NHCH_3	7	technically pure	0,69	20	\	\	+	+	O	O	\	\	\	\
					40			+	O		–				
					60			O	O						
					80										
					100										
					120										
Dimethyl phthalate	$H_3CCOOC_6H_4COOCH_3$	284	technically pure	1,19	20	+	+	+	+	–	+	\	\	\	\
					40	+	O	+	O		+				
					60	+		O	O		O				
					80	+					O				
					100	–					–				
					120										
Dinonyl phthalate	$H_{19}C_9COOC_6H_4COOC_9H_{19}$		technically pure	0,98	20	\	\	+	+	–	+	\	\	\	\
					40			+			O				
					60			O							
					80										
					100										
					120										

+ Resistant
O Conditionally resistant
– Non-resistant
\ Consult Factory

Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
Dioctyl phthalate*			technically pure		20	+	+	\	\	\	\	\	\	\	\
					40	+	+								
					60	+	+								
					80	+	O								
					100	O									
					120										
Dioxane	$C_4H_8O_2$	101	technically pure	1,03	20	\	\	+	O	–	+	\	\	\	\
					40			+	O		O				
					60			+	O		–				
					80				–						
					100										
					120										
Diphenyl oxide	$C_6H_5OC_6H_5$	258	technically pure	1,08	20	+	\	+	–	–	+	\	\	\	\
					40	O		O			+				
					60			O			+				
					80						+				
					100						+				
					120						+				
Ethanolamine	$NH_2CH_2CH_2OH$	171	technically pure	1,02	20	+	\	+	+	–	O	\	\	\	\
					40	–			+		O				
					60				+		O				
					80						–				
					100										
					120										
Ethyl acetate	$CH_3COOCH_2CH_5$	77	technically pure	0,9	20	\	+	+	+	–	+	\	\	\	\
					40		+	O	O		O				
					60		+	–	–		–				
					80		–								
					100										
					120										
Ethyl acrylate	$CH_2CHCOOC_2H_5$	100	technically pure	0,92	20	\	+	O	O	–	O	\	\	\	\
					40		+	O			O				
					60		+				–				
					80		–								
					100										
					120										
Ethyl alcohol			technically pure		20	\	+	+	+	+	+	\	\	\	\
					40		+	+	+		+				
					60		+				+				
					80		+								
					100		–								
					120										
Ethyl benzene	$H_5C_2C_6H_5$	136	technically pure	0,87	20	+	+	O	O	–	+	\	\	\	\
					40	O	+	–	–		+				
					60		+				O				
					80		+				O				
					100		–				–				
					120										
Ethyl bromide	CH_3CH_2Br	38	technically pure	1,41	20	\	+	–	–	–	–	\	\	\	\
					40		O								
					60										
					80										
					100										
					120										
Ethyl chloride	CH_3CH_2Cl	12	technically pure	0,92	20	\	+	O	O	–	+	\	\	\	\
					40		O	–	O		+				

+ Resistant
O Conditionally resistant
– Non-resistant
\ Consult Factory

Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					60				O		+				
					80				–		+				
					100						O				
					120						O				
Ethyl ether	$H_5C_2OC_2H_5$	35	technically pure	0,71	20	–	+	O	O	–	+	\	\	\	\
					40		+	O	O		+				
					60		–	–	O						
					80				–						
					100										
					120										
Ethylene chloride	CH_2CCl_2	32	technically pure	1,21	20	–	+	O	O	–	+	\	\	\	\
					40		+	O	–		+				
					60		+	O			+				
					80		+				+				
					100		–				O				
					120						O				
Ethylene diamine	$H_2NCH_2CH_2NH_2$	117	technically pure	0,92	20	\	\	+	+	O	O	\	\	\	\
					40			+	+	–	–				
					60			+	+						
					80				O						
					100										
					120										
Ethylene glycol	$HOCH_2CH_2OH$	198	technically pure	1,11	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	O	+				
					80	+	+		O		+				
					100	O	+		O		+				
					120		+				+				
Ethylene oxide	C_2H_4O	11	technically pure,	0,89	20	\	\	–	O	–	+	\	\	\	\
			liquid		40						+				
					60						O				
					80						–				
					100										
					120										
Fatty acids	RCOOH		All, aqueous		20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	O		+	+				
					80	+	+				+				
					100	+	+				+				
					120	+	+								
Fatty alcohols					20	\	\	+	+	+	+	\	\	\	\
					40						+				
					60						+				
					80										
					100										
					120										
Fluorine	F_2		technically pure		20	\	\	–	–	–	O	\	\	\	\
			liquid		40						–				
					60										
					80										
					100										
					120										
Fluorosilicic acid	H_2SiF_6	108	50%, aqueous	1,31	20	\(1)	\	+	+	+	+	\	\	\	\
					40			+		O	+				
					60					O	+				
					80						+				

+ Resistant
O Conditionally resistant
– Non-resistant
\ Consult Factory

Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					100						+				
					120										
			32%, aqueous		20	+(1)	+	+	+	+	+	\	\	\	\
					40	O(1)	+	+	+	+	+				
					60		–	+	+	+	+				
					80						+				
					100						+				
					120										
			10%, aqueous		20	+(1)	+	+	+	+	+	\	\	\	\
					40	+(1)	+	+	+	+	+				
					60	+(1)	–	+	+	O	+				
					80	+(1)					+				
					100	–(1)									
					120										
Formaldehyde	HCHO	-19	40%, aqueous	0,82	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	–	–								
					100										
					120										
Formamide	$HCONH_2$	210	technically pure	1,13	20	\	\	+	+	–	–	\	\	\	\
					40			+	+						
					60			+	+						
					80										
					100										
					120										
Formic acid	HCOOH	101	technically pure	1,22	20	\	+	+	+	O	+	\	\	\	\
					40		O	+	O	O	+				
					60			O	O	–	+				
					80				–		O				
					100						–				
					120										
			85%, aqueous		20	\	+	+	+	+	+	\	\	\	\
					40		+	+	O	–	+				
					60		–	+	O		+				
					80				–		+				
					100										
					120										
			50%, aqueous		20	+	\	+	+	+	+	\	\	\	\
					40	+		+	+	+	+				
					60	–		+	O	O	+				
					80						+				
					100						+				
					120										
			10%, aqueous		20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	–	+	+	O	+				
					80	+			O		+				
					100	–			O		+				
					120										
Frigen 12	CF2Cl2		technically pure		20	+	+	\	\	\	\	\	\	\	\
(Freon 12)					40	O	–								
					60										
					80										
					100										
					120										

+ Resistant

O Conditionally resistant

– Non-resistant

\ Consult Factory

Note:

(1) FRP-VEF Required

(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
Fruit juices					20	\	\	+	+	+	+	\	\	\	\
					40			+	+	+	+				
					60			+	+	+	+				
					80				+		+				
					100				+						
					120										
Fruit pulp					20	\	\	+	+	+	+	\	\	\	\
					40			+	+		+				
					60			+	+		+				
					80										
					100										
					120										
Fuel oil					20	+	+	\	\	\	\	\	\	\	\
					40	+	+								
					60	+	+								
					80	+	+								
					100	O	+								
					120										
Furfural	OH_3C_4CHO	162	technically pure	1,16	20	–	+	+	O	–	+	\	\	\	\
					40		O	O	–		O				
					60			O			–				
					80										
					100										
					120										
Furfuryl alcohol	$CH_3C_4CH_2OH$	170	technically pure	1,13	20	–	\	+	+	–	+	\	\	\	\
					40			+	+		O				
					60			O	O		O				
					80						–				
					100										
					120										
Gelatine			cold saturated,		20	\	\	+	+	+	+	\	\	\	\
			aqueous		40			+	+	+	+				
					60			+	+	O	+				
					80				+		+				
					100				+						
					120										
Gluconic acid	$C_6H_{12}O_7$		technically pure		20	\	+	+	+	+	–	\	\	\	\
					40		+								
					60		–								
					80										
					100										
					120										
Glucose	$C_6H_{12}O_6$		cold saturated,	1,56	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+	+	+	O	+				
					80	+	+		+		+				
					100	–	+		+		+				
					120		+				+				
Glycerine	$C_3H_5(OH)_3$	290	technically pure	1,26	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+		+		+				
					100	O	+		+		+				
					120		+				+				
Glycol	see Ethylene glycol	197		1,11											

+ Resistant

O Conditionally resistant

– Non-resistant

\ Consult Factory

Note:

(1) FRP-VEF Required

(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
Glycolic acid	$HOCH_2COOH$		70%, aqueous		20	+	+	+	+	+	+	\	\	\	\
					40	O	O	+	+	+	+				
					60			+		+	+				
					80						+				
					100						+				
					120										
Heptane	$CH_3(CH_2)_5CH_3$	98	technically pure	0,68	20	+	+	+	O	+	+	\	\	\	\
					40	+	+	O	O	O	+				
					60	+	+	–	O	O	+				
					80	+	+				+				
					100	O	+				+				
					120		–								
Hexane	$CH_3(CH_2)_5CH_3$	69	technically pure	0,66	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	O	O	O	+				
					60	+	+	O	O	O	+				
					80	–	O		–		+				
					100						+				
					120						+				
Hexamethylene tetramine	$(NCH_2)_3N(CH_2)_3$	245	technically pure	0,66	20	+	\	–	–	–	+	\	\	\	\
					40	+					O				
					60	–					–				
					80										
					100										
					120										
Hydrazine	H_2NNH_2	114	technically pure	1,032	20	–	–	\	\	–	\	\	\	\	\
					40										
					60										
					80										
					100										
					120										
Hydrobromic acid	HBr	-7	62%, aqueous		20	+	\	–	–	–	+	\	\	\	\
					40	O					+				
					60						+				
					80						+				
					100										
					120										
			48%, aqueous		20	+	+	+	+	+	+	\	\	\	\
					40	+	O	+	+	+	+				
					60	+		+	+	+	+				
					80	–					+				
					100						+				
					120						+				
Hydrochloric acid	HCl		37%, aqueous	1,2	20	+	+	+	+	+	+	O	+	+	\
					40	+	+	+	+	+	+	O	+	+	
					60	–	+	O	O		+	O	O	+	
					80		–		–		+				
					100						+				
					120										
			32%, aqueous		20	+	+	+	+	+	+	+	+	+	\
					40	+	+	+	+	+	+	+	+	+	
					60	+	+	+	O	+	+	+	+	+	
					80	–	–		O		+		+	+	
					100				–		+				
					120						+				
			20%, aqueous		20	+	+	+	+	+	+	+	+	+	\

+ Resistant
O Conditionally resistant
– Non-resistant
\ Consult Factory

Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					40	+	+	+	+	+	+	+	+	+	
					60	+	+	+	O	O	+	+	+	+	
					80	+	+		O		+	O	+	+	
					100	+	–		–		+				
					120	–					+				
			10%, aqueous		20	+	+	+	+	+	+	+	+	+	\
					40	+	+	+	+	+	+	+	+	+	
					60	+	+	+	+	O	+	+	+	+	
					80	+	+		O		+	+	+	+	
					100	+	–		–		+			+	
					120	–					+			+	
			5%, aqueous		20	+	+	+	+	+	+	+	+	+	\
					40	+	+	+	+	+	+	+	+	+	
					60	+	+	+	+	O	+	+	+	+	
					80	+	+		+		+	+	+	+	
					100	+	–		O		+			+	
					120	–					+			+	
Hydrocyanic acid	HCN	26	All, aqueous	0,69	20	+	+	+	+	+	+	\	\	\	\
					40	+	O	+	+	+	+				
					60	+		+	+		+				
					80	+					+				
					100	O					+				
					120						+				
Hydrofluoric acid	HF		85%, aqueous		20	–	–	+	O	O	+	\	\	\	\
					40			O		–	+				
					60			O							
					80										
					100										
					120										
			70%, aqueous		20	–	–	+	O	O	+	\	\	\	\
					40			+		O	+				
					60			O			+				
					80						+				
					100										
					120										
			40%, aqueous		20	–	–	+	O	O	+	\	\	\	\
					40			+	O	O	+				
					60			O			+				
					80						+				
					100						+				
					120										
			20%, aqueous		20	+(1)	–	+	O	O	+	\	\	\	\
					40	O		+	O	O	+				
					60			O			+				
					80						+				
					100										
					120										
			10%, aqueous		20	+(1)	+	+	+	+	+	\	\	\	\
					40	+(1)	–	+	+	+	+				
					60	+(1)		+	O	O	+				
					80	–			O		+				
					100										
					120										
Hydrogen	H_2	–253	technically pure		20	\	\	+	+	+	+	\	\	\	\
					40			+	+	+	+				
					60			+	+	+	+				

+ Resistant
O Conditionally resistant
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\ Consult Factory

Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					80						+				
					100						+				
					120						+				
Hydrogen chloride	HCl	–85	technically pure,		20	+	–	+	+	+	+	\	\	\	\
			gaseous		40	+		+	+	+	+				
					60	+		+	+		+				
					80	+					+				
					100	+					+				
					120	–									
Hydrogen peroxide	H_2O_2	150	90%, aqueous	1,45	20	–	–	O	–	–	O	\	\	\	\
					40			–			–				
					60										
					80										
					100										
					120										
			70%, aqueous		20	–	–	O	O	+	O	\	\	\	\
					40			O	O	O	–				
					60			–	–	–					
					80										
					100										
					120										
			50%, aqueous		20	–	–	O	O	+	O	\	\	\	\
					40			–	O	O	O				
					60				–	–	–				
					80										
					100										
					120										
			30%, aqueous		20	+	+	O	O	+	O	\	\	\	\
					40	+	–	O	O	O	O				
					60	+		O	O	O	O				
					80	–			–		–				
					100										
					120										
Hydrogen sulfide	H_2S	-60	cold saturated,	1,54	20	\	\	+	+	+	+	\	\	\	\
			aqueous		40			+	+	+	+				
					60			+	+	O	+				
					80						+				
					100										
					120										
			5%, aqueous		20	\	\	+	+	\	+	\	\	\	\
					40			+	+		+				
					60			+	+		+				
					80						+				
					100						+				
					120						+				
Hydroquinone	HOC_6H_4OH	285	GL	1,33	20	\	\	+	+	+	+	\	\	\	\
					40			O			+				
					60			–							
					80										
					100										
					120										
Hypochlorous acid	HClO		aqueous		20	\(2)	\	–	–	+	O	\	\	\	\
					40						O				
					60						O				
					80						O				
					100										

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Note:
(1) FRP-VEF Required
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Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					120										
Hyposulphite	see Sodium dithionite														
Iodine	J_2	185	technically pure	4,93	20	+	+	–	–	–	+	\	\	\	\
					40	+	+				+				
					60	+	+				+				
					80	–	+								
					100		–								
					120										
Isooctane	$(CH_3)_3CCH_2CH(CH_3)_2$	99	technically pure	0,69	20	\	\	+	+	+	+	\	\	\	\
					40			O	O	+	+				
					60			O	O	O	+				
					80				–		+				
					100						+				
					120										
Isophorone	$COCHC(CH_3)CH_2C(CH_3)_2CH_2$	215	technically pure	0,92	20	\	\	–	–	–	+	\	\	\	\
					40						O				
					60						–				
					80										
					100										
					120										
Isopropyl alcohol	$CH_3CHOHCH_3$	82	technically pure	0,79	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+		+				
					60	–	+	+	+		+				
					80		O		+		O				
					100				+						
					120										
Isopropyl ether	$(CH_3)_2CHOCH(CH_3)_2$	68	technically pure	0,72	20	\	\	O	O	–	+	\	\	\	\
					40			O	–		+				
					60			–							
					80										
					100										
					120										
Jet petrol		150	technically pure	0,8	20	+	+	+	O	+	+	\	\	\	\
					40	+	+	O	O	+	+				
					60	+	+	O	O	O	+				
					80		+		O		+				
					100		+				+				
					120		+				+				
Kerosene		150	technically pure	0,8	20	+	+	+	O	+	+	\	\	\	\
					40	+	+	O	O	O	+				
					60	+	+	O	O	O	+				
					80	+	+		–		+				
					100	–	+				+				
					120		+								
Lactic acid	$CH_3CHOHCOOH$		50%, aqueous	1,21	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	–	+	+	+	+					
					80		+		+						
					100		+		+						
					120		+								
Lanolin				0,94	20	\	\	+	+	+	+	\	\	\	\
					40			+	+	O	+				
					60			O	O	–	+				
					80						+				
					100										

+ Resistant
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Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					120										
Lauric acid	$C_{12}H_{24}O_2$	131	technically pure	0,87	20	\	+	+	+	+	+	\	\	\	\
					40		+	+	+	+	+				
					60		+	O	O	O	+				
					80		+				+				
					100		+				+				
					120		+								
Lauryl alcohol	$C_{12}H_{25}OH$	259	technically pure	0,83	20	+	+	–	–	+	–	\	\	\	\
					40	+	+			+					
					60	+	+			+					
					80	+	+								
					100	O	–								
					120										
Lauryl chloride	$C_{12}H_{25}Cl$	259	technically pure	0,83	20	+	+	–	–	+	+	\	\	\	\
					40	+	+			O	+				
					60	+	+			–	+				
					80	+	+				+				
					100	O	+				+				
					120		–				+				
Linseed oil			technically pure	0,93	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	O	+				
					80	+	+		+		+				
					100	+	+		+		+				
					120	–	+				+				
Lead acetate	$Pb(CH_3COO)_2$		cold saturated,	3,25	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+		+		+				
					100	+	+				+				
					120	–	–								
Lead nitrate	$Pb(NO_3)_2$	470	dilute solution	4,53	20	\	+	+	+	+	+	\	\	\	\
					40		+	+	+	+	+				
					60		+			+	+				
					80		+				+				
					100		+								
					120		–								
Lithium bromide	LiBr x H_2O	1265	cold saturated,	3,46	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+	+	+		+				
					80	+	+				+				
					100	+	+				+				
					120	+	+								
Lithium chloride	LiCl	1342	cold saturated,	2,07	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+		+				
					60	+	+				+				
					80	+	+				+				
					100	+	+				O				
					120	+	+				–				
Lithium hydroxide	LiOH	924	cold saturated,	1,46	20	+	+	+	+	+	O	\	\	\	\
			aqueous		40	+	+				O				
					60	+	+				O				
					80	+	+				O				
					100	–	+				–				
					120		–								

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Note:
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Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
Magnesium carbonate	$MgCO_2$		cold saturated,	2,96	20	+	\	+	+	+	+	\	\	\	\
			aqueous		40	+		+	+	+	+				
					60	+		+	+	+	+				
					80	+			+		+				
					100	–			+		+				
					120										
Magnesium chloride	$MgCl_2$	1412	cold saturated,	2,32	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+		+		+				
					100	+	+				+				
					120	+	+								
Magnesium hydroxide	$Mg(OH)_2$		cold saturated,	2,36	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+				+				
					100	O	+								
					120		–								
Magnesium nitrate	$Mg(NO_3)_2$ x 6 H_2O		cold saturated,	2,36	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+				+				
					100	O	+				+				
					120		+								
Magnesium sulfate	$MgSO_4$		all, aqueous	2,66	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+		+		+				
					100	+	+		+		+				
					120	+	+				+				
Maleic acid	HOOCCHCHCOOH		cold saturated,	1,59	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	O	+				
					60	+	+	O	O	O	+				
					80	+	O				+				
					100	O									
					120										
Marmelade					20	\	\	+	+	–	+	\	\	\	\
					40			+	+		+				
					60			+	+		+				
					80				+		+				
					100				+						
					120										
Mercury	Hg	357	technically pure	13,59	20	+	\	+	+	+	+	\	\	\	\
					40	+		+	+	+	+				
					60	+		+	+	+	+				
					80	+					+				
					100	+					+				
					120	+									
Methacrylic acid	$H_2CC(CH_3)(COOH)$	161		1,01	20	\	\	+	+	–	+	\	\	\	\
					40			+	+						
					60			+	+						
					80										
					100										
					120										
Methane	CH_4	–161	technically pure		20	\	\	+	+	+	+	\	\	\	\
					40						+				

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Note:
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Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					60						+				
					80						+				
					100						+				
					120										
Methanol	CH_3OH	65	technically pure	0,79	20	\	+	+	+	O	+	\	\	\	\
					40		+	+	+	O	+				
					60		+	+	+	O	O				
					80		–								
					100										
					120										
			50%, aqueous		20	\	+	+	+	O	+	\	\	\	\
					40		+	+	+	O	+				
					60		+	+	+	O	+				
					80		O				+				
					100										
					120										
			10%, aqueous		20	+	+	\	\	\	\	\	\	\	\
					40	–	+								
					60		+								
					80		O								
					100										
					120										
Methyl acetate	CH_3COOCH_3	58	technically pure	0,93	20	\	\	+	+	–	+	\	\	\	\
					40			+	+		O				
					60			O	+						
					80				O						
					100										
					120										
Methyl amine	CH_3NH_2	–6	32%, aqueous		20	\	\	+	+	O	O	\	\	\	\
					40					–					
					60										
					80										
					100										
					120										
Methyl bromide	CH_3Br	4	technically pure	1,73	20	\	\	O	–	–	+	\	\	\	\
					40			–			+				
					60						+				
					80						+				
					100						+				
					120										
Methyl chloride	CH_3Cl	–24	technically pure	1	20	\	\	O	O	–	+	\	\	\	\
					40			–	–		+				
					60						+				
					80						+				
					100						+				
					120						O				
Methylene chloride	CH_2Cl_2	40	technically pure	1,33	20	–	+	O	O	–	O	\	\	\	\
					40		O	O	–		–				
					60			O							
					80										
					100										
					120										
Methyl ethyl ketone	$CH_3COC_2H_5$	80	technically pure	0,81	20	\	+	+	+	–	O	\	\	\	\
					40		+	O	O		–				
					60		+	–	O						
					80		O								

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Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					100										
					120										
Methyl isobutyl ketone	$H_3CCH(CH)CH_2COOCH_3$	117	technically pure	0,8	20	+	+	+	+	–	O	\	\	\	\
					40	O	+	O	O		O				
					60		+	–	–						
					80		O								
					100										
					120										
Milk					20	\	\	+	+	+	+	\	\	\	\
					40			+	+	+	+				
					60			+	+	+	+				
					80				+		+				
					100				+		+				
					120										
Mineral water					20	\	\	+	+	+	+	\	\	\	\
					40			+	+	+	+				
					60			+	+		+				
					80				+		+				
					100				+		+				
					120						+				
Mixed acids															
– sulphuric	H2SO4		48%		20	\	\	\	\	\	\	\	\	\	\
– nitric	HNO3		49%		40										
– water	H2O		43%		60										
					80										
					100										
					120										
	H2SO4		50%		20	\	\	\	\	\	\	\	\	\	\
	HNO3		50%		40										
	H2O		40%		60										
					80										
					100										
					120										
	H2SO4		10%		20	\	\	\	\	\	\	\	\	\	\
	HNO3		87%		40										
	H2O		43%		60										
					80										
					100										
					120										
	H2SO4		50%		20	\	\	\	\	\	\	\	\	\	\
	HNO3		31%		40										
	H2O		19%		60										
					80										
					100										
					120										
	H2SO4		50%		20	\	\	\	\	\	\	\	\	\	\
	HNO3		33%		40										
	H2O		17%		60										
					80										
					100										
					120										
	H2SO4		10%		20	\	\	\	\	\	\	\	\	\	\
	HNO3		20%		40										
	H2O		70%		60										
					80										
					100										

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Note:
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Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					120										
Mixed acids															
– nitric	15% pure HNO3		3 parts		20	\	\	\	\	\	\	\	\	\	\
– hydrofluoric	15% pure HF		1 part		40										
– sulphuric	18% pure H2SO4		2 parts		60										
					80										
					100										
					120										
Mixed acids															
– sulphuric	H2SO4		30%		20	\	\	\	\	\	\	\	\	\	\
– phosphoric	H3PO4		60%		40										
– water	H2O		10%		60										
					80										
					100										
					120										
Molasses					20	\	\	+	+	+	+	\	\	\	\
					40			+	+	+	+				
					60			+	+	O	+				
					80										
					100										
					120										
Morpholin		129	technically pure	1	20	–	\	+	+	–	+	\	\	\	\
					40			+	+		O				
					60			+	+						
					80										
					100										
					120										
Motor oil					20	+	+	+	+	–	+	\	\	\	\
					40	+	+	O	O		+				
					60	+	+	O	O		+				
					80	+	+				+				
					100	+	+								
					120	+	+								
Mowilith DM 60					20	\	\	+	–	–	–	\	\	\	\
					40										
					60										
					80										
					100										
					120										
Naphtha					20	+	+	+	+	–	+	\	\	\	\
					40	+	+	O	O		+				
					60	+	+	O	–		+				
					80	+	+								
					100	O	+								
					120		+								
Naphthalene	$C_{10}H_8$	218	technically pure	1,16	20	+	+	+	+	–	+	\	\	\	\
					40	+	+	O	O		+				
					60	+	+	O	–		+				
					80	+	+				+				
					100	O	–				O				
					120						O				
Nickle chloride	$NiCl_2$	987	all, aqueous	3,55	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+				+				
					100	O	+				+				

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Note:
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Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					120		+				+				
Nickle nitrate	$Ni(NO_3)_2$ x $6H_2O$	137	all, aqueous	2,05	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+				+				
					100	O	+				+				
					120		+								
Nickle sulfate	$NiSO_4$ x $6H_2O$	840	all, aqueous	2,07	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+				+				
					100	O	+				+				
					120		+				+				
Nitric acid	HNO3	84	98%	1,54	20	–	–	–	–	–	O	–	–	+	\
					40						–			+	
					60									+	
					80										
					100										
					120										
			90%		20	–	–	–	–	–	+	–	–	+	\
					40						O			+	
					60						–			+	
					80										
					100										
					120										
			65%, aqueous		20	–	–	O	–	O	+	–	–	+	\
					40			–		O	+			+	
					60					–	+			+	
					80						O				
					100						O				
					120										
			53%, aqueous		20	–	–	O	O	+	+	–	–	+	\
					40			–	–	+	+			+	
					60					O	+			+	
					80						+				
					100						O				
					120										
			25%, aqueous		20	+	+	O	O	+	+	+	+	+	\
					40	–	–	O	–	+	+		+	+	
					60			–		O	+			+	
					80						+			+	
					100						+			+	
					120										
			20%, aqueous		20	+	+	O	O	+	+	+	+	+	\
					40	+	–	O	–	+	+		+	+	
					60	–		–		O	+			+	
					80						+			+	
					100						+			+	
					120										
			10%, aqueous		20	+	+	O	O	+	+	+	+	+	\
					40	+	+	O	O	+	+		+	+	
					60	+	–	O	–	O	+		O	+	
					80	–					+			+	
					100						+			+	
					120									+	

+ Resistant
O Conditionally resistant
– Non-resistant
\ Consult Factory

Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
			5%, aqueous		20	+	+	O	O	+	+	+	+	+	\
					40	+	+	O	O	+	+		+	+	
					60	+	+	O	–	O	+		O	+	
					80	+	–				+			+	
					100						+			+	
					120									+	
Nitrobenzene	$C_6H_5NO_2$	209	technically pure	1,2	20	+	+	+	+	–	+	\	\	\	\
					40	–	+	O	+		+				
					60		+	O	O		O				
					80		+		–		–				
					100		–								
					120										
Nitrotoluene	$CH_3C_6H_4NO_2$	222	technically pure	1,16	20	\	\	+	+	–	+	\	\	\	\
					40			O	O		+				
					60			O	O		+				
					80				–		O				
					100						–				
					120										
Oleic acid	$H_3C(CH_2)CHCH(CH_2)_7(COO)$	80	technically pure	0,89	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	O	O	+	+				
					80	+	+				+				
					100	O	+				+				
					120		+								
Oleum	$H_2SO_4+SO_3$		35% SO3		20	–	\	–	–	–	O	\	\	\	\
					40										
					60										
					80										
					100										
					120										
Olive oil				0,92	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	O	+				
					80	+	+		O		+				
					100	+	+		O						
					120	+	+								
Oxalic acid	COOH	182	cold saturated,	1,65	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	–	+	+	+	+	O				
					80		+								
					100		+								
					120		–								
Ozone	O_3	-112	2mg/l		20	+	\	\	\	\	\	\	\	\	\
					40	O									
					60										
					80										
					100										
					120										
Palmitic acid	$CH_3(CH_2)_{14}COOH$	390	technically pure	0,86	20	+	\	+	+	+	+	\	\	\	\
					40	+		+	O	+	+				
					60	+		O	–	O	+				
					80	+					+				
					100	+					+				
					120	+					+				
Palm oil					20	+	\	+	+	+	+	\	\	\	\
					40	+		+	O	+	+				

+ Resistant

O Conditionally resistant

– Non-resistant

\ Consult Factory

Note:

(1) FRP-VEF Required

(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					60	+		+	O	+	+				
					80	+					+				
					100	–					+				
					120										
Paraffin emulsions			aqueous		20	\	\	+	+	+	+	\	\	\	\
					40				+	+	+				
					60				+		+				
					80										
					100										
					120										
Paraffine oil					20	\	\	+	+	+	+	\	\	\	\
					40			+	+	+	+				
					60			O	O		+				
					80						+				
					100						+				
					120										
Perchlorid acid	$HClO_4$	200	70%, aqueous	1,71	20	–	–	O	O	O	+	\	\	\	\
					40			–	–	–	+				
					60						+				
					80						+				
					100						+				
					120										
			20%, aqueous		20	+	+	O	O	+	+	\	\	\	\
					40	O	O	O	O	O	+				
					60			O	O	–	+				
					80				–						
					100										
					120										
			10%, aqueous		20	+	\	O	O	+	+	\	\	\	\
					40	+		O		+	+				
					60	+					+				
					80	–									
					100										
					120										
Perchlorethylene			technically pure		20	+	+	\	\	\	\	\	\	\	\
					40	+	+								
					60	–	+								
					80		–								
					100										
					120										
Petroleum ether	C_5H_{12} / C_6H_{14}		technically pure		20	\	\	+	+	+	+	\	\	\	\
					40			O	O	+	+				
					60			O	O	O	+				
					80						+				
					100						+				
					120										
Phenol	HOC_6H_5		5%, aqueous		20	+	+	+	+	+	+	\	\	\	\
					40	–	+	+	+	O	+				
					60		+		+	O	+				
					80		O		O		+				
					100										
					120										
		182	90%, aqueous	1,06	20	–	–	+	+	O	+	\	\	\	\
					40			+	+	O	+				
					60			O	O	–	+				
					80				–		O				

+ Resistant
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\ Consult Factory

Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					100										
					120										
Phenylhydrazine	$H_2NNC_6H_5$	243	technically pure	1,09	20	\	\	O	O	–	O	\	\	\	\
					40			O	O		O				
					60			O	O		O				
					80						O				
					100						–				
					120										
Phenylhydrazine	$H_2NNC_6H_5$	243	technically pure	1,1	20	\	\	O	O	O	O	\	\	\	\
					40			O	O		O				
					60			O	O		O				
					80						O				
					100						–				
					120										
Phosgene	$COCl_2$	8	technically pure		20	\	\	O	O	+	+	\	\	\	\
			liquid		40			O	O	O	O				
					60			O	O	O	–				
					80										
					100										
					120										
Phosphoric acid	H_3PO_4		98%, aqueous	1,88	20	+	\	+	+	–	+	\	\	\	\
					40	+					+				
					60	+					+				
					80	+					+				
					100	O									
					120										
			85%, aqueous		20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	–	+	+	O	+				
					80	+			+		+				
					100	O									
					120										
			50%, aqueous		20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	–		+		+				
					100	O									
					120										
			25%, aqueous		20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	–				+				
					100	O									
					120										
Phosphorous chloride	PCl_3	76	technically pure	1,57	20	\	\	O	O	–	+	\	\	\	\
					40			O	–		O				
					60			–			O				
					80										
					100										
					120										
Phosphorous			70%, aqueous		20	+	\	\	\	\	\	\	\	\	\
					40	+									
					60	+									
					80	+									
					100	–									
					120										

+ Resistant
O Conditionally resistant
– Non-resistant
\ Consult Factory

Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
Phthalic acid	$HOOCC_6H_4COOH$		cold saturated,	1,59	20	+	\	+	+	+	+	\	\	\	\
			aqueous		40	+		+	+	O	+				
					60	+		+	+	–	+				
					80	+					+				
					100	O					O				
					120						–				
Picric acid	$HOC_6H_2(NO_2)_3$		10%, aqueous		20	\	+	+	+	+	+	\	\	\	\
					40		O	+		O	+				
					60					–	+				
					80						+				
					100										
					120										
Potassium acetate	CH_3COOK		cold saturated,	1,57	20	\	\	+	+	+	+	\	\	\	\
			aqueous		40			+	+	+	+				
					60						+				
					80										
Potassium borate	K_3BO_3		cold saturated,		20	\	\	+	+	+	+	\	\	\	\
			aqueous		40			+	+	+	+				
					60			+	+	+	+				
					80				+		+				
					100						+				
					120										
Potassium bromate	$KBrO_3$	370	cold saturated,		20	\	\	O	O	+	+	\	\	\	\
			aqueous		40			O	O	+	+				
					60			O	O	O	+				
					80						+				
					100										
					120										
Potassium bromide	KBr		all, aqueous		20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+		+		+				
					100	O	+		+		+				
					120		+				+				
Potassium carbonate	K_2CO_3		dilute solution		20	+	\	+	+	+	O	\	\	\	\
					40	+		+	+	+	O				
					60	+		+	+	O	O				
					80	+									
					100	–									
					120										
Potassium chlorate	$KClO_3$		20%, aqueous		20	\	\	O	O	+	O	\	\	\	\
					40			O	O	+	+				
					60			O	O	O	+				
					80										
					100										
					120										
Potassium chloride	KCl		all, aqueous	1,99	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+		+		+				
					100	O	+		+		+				
					120		+				+				
Potassium chromate	K_2CrO_4		cold saturated,	2,74	20	\	\	+	+	+	+	\	\	\	\
			aqueous		40			+	O	+	+				
					60			O	O		+				

+ Resistant
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Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					80						+				
					100						O				
					120										
Potassium cyanide	KCN		cold saturated,	1,52	20	\	\	+	+	+	O	\	\	\	\
			aqueous		40			+	+	+	O				
					60			+	+	+	O				
					80				O						
					100										
					120										
Potassium dichromate	$K_2Cr_2O_7$	500	cold saturated,	2,7	20	+	\	O	O	+	+	\	\	\	\
			aqueous		40	+		O	O	+	+				
					60	+					+				
					80	+					+				
					100	O									
					120										
Potassium ferricyanide	$K_3(Fe(CN)_{76})$		all, aqueous	1,89	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+				+				
					100	O	+				+				
					120		+								
Potassium ferrocyanide	$K_4(Fe(CN)_{76})$		all, aqueous	1,85	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+				+				
					100	O	+				+				
					120		+				+				
Potassium fluoride	KF	1505	cold saturated,	2,48	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	–		+		+				
					100	–					+				
					120										
Potassium hydrogen carbonate	$KHCO_3$		cold saturated,	2,17	20	\	\	+	+	+	+	\	\	\	\
			aqueous		40			+	+	+	+				
					60			+	+	+	+				
					80				+						
Potassium hydrogen sulphate	$KHSO_4$		cold saturated,	2,32	20	\	\	+	+	+	+	\	\	\	\
			aqueous		40			+	+	+	+				
					60			+	+		+				
					80						+				
					100						+				
					120										
Potassium hydroxide	see Caustic potash solution			2,04											
Potassium iodide	KJO_3		cold saturated,	3,9	20	\	\	O	O	+	+	\	\	\	\
			aqueous		40					O	+				
					60					O	+				
					80						+				
					100										
					120										
Potassium nitrate	KNO_3	400	cold saturated,	2,11	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+		+		+				
					100	O	+				+				

+ Resistant
O Conditionally resistant
– Non-resistant
\ Consult Factory

Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					120		–								
Potassium perchlorate	$KClO_4$		cold saturated,	2,52	20	\	\	O	O	+	+	\	\	\	\
			aqueous		40					+	+				
					60					O	+				
					80						+				
					100										
					120										
Potassium	$KMnO_4$		10%, aqueous	2,7	20	+	+	O	O	+	+	\	\	\	\
permanganate					40	+	+	O	O	O	+				
					60	+	+	–	O	O	+				
					80	+	O		O		+				
					100	O									
					120										
			5%, aqueous	2,7	20	+	+	+	O	+	+	\	\	\	\
					40	+	+	+	O	+	+				
					60	+	+	O		+	O				
					80	+	+				O				
					100	O	+								
					120		–								
Potassium persulphate	$K_2S_2O_8$		all, aqueous		20	+	\	+	+	+	+	\	\	\	\
					40	+		+	+	+	+				
					60	+		+	+	O	+				
					80	+					+				
					100	O					+				
					120										
Potassium phosphate	K_3PO_4		all, aqueous	2,56	20	+	\	+	+	+	+	\	\	\	\
					40	+		+	+	+	+				
					60	+		+	+	+	+				
					80	–					+				
					100						+				
					120										
Potassium sulphate	K_2SO_4	1689	all, aqueous	2,67	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	O	+				
					80	+	+				+				
					100	O	+				+				
					120		+								
Propane	$CH_3CH_2CH_3$	–42	technically pure,	0,5	20	+	+	+	+	+	+	\	\	\	\
			liquid		40	+	–				+				
					60	+					+				
					80						+				
					100						+				
					120										
Propanole	$CH_3CH_2CH_2OH$	97	technically pure	0,8	20	\	\	+	+	+	+	\	\	\	\
					40			+	+	+	+				
					60			+	+	O	+				
					80						O				
					100						–				
					120										
Propargyl alcohol	$HCCCH_2OH$	115	7%, aqueous		20	\	\	+	+	+	+	\	\	\	\
					40			+	+	+	O				
					60			+	+	+	O				
					80										
					100										
					120										

+ Resistant
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Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
Propionic acid	CH_3CH_2COOH	141	technically pure	0,99	20	+	+	+	+	+	+	\	\	\	\
					40	–	O	+	O	O	+				
					60			O	O		+				
					80										
					100										
					120										
			50%, aqueous		20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	–	+	+	O	+				
					80	+									
					100	–									
					120										
Propylene dichloride	$ClCH_2CH(Cl)_2CH_3$	96	technically pure	1,16	20	\	\	O	–	–	O	\	\	\	\
					40			–			O				
					60						–				
					80										
					100										
					120										
Propylene glycol	$CH_3CHOHCH_2OH$	188	technically pure	1,04	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	O	+				
					60	+	+	+	+		+				
					80	+	+								
					100	O	+								
					120		+								
Propylene oxide	C_3H_6O	35	technically pure	0,86	20	\	\	O	O	O	O	\	\	\	\
					40			O		–	O				
					60										
					80										
Pyridine	C_5H_5N	115	technically pure	0,98	20	–	+	+	O	–	–	\	\	\	\
					40		+	O	O						
					60		–	O	O						
					80										
					100										
					120										
Salicylic acid	$HOOCC_6H_4OH$		cold saturated,	1,44	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	–	–				+				
					100						O				
					120										
Silicic acid	H_2SiO_3 , H_4SiO_4 , $H_6Si_2O_7$		All, aqueous		20	\	\	+	+	+	+	\	\	\	\
					40			+	+		+				
					60			+	+		+				
					80						+				
					100						+				
					120										
Silico fluoric acid	see Fluorosilicic acid														
Silicone oil				0,96	20	\	\	+	+	–	+	\	\	\	\
					40			+	+		+				
					60			+	+		+				
					80				O						
					100				O						
					120										
Silver nitrate	$AgNO_3$	444	cold saturated,	4,35	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				

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Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					60	+	+	+	+	+	+				
					80	+	+								
					100	O	+								
					120		–								
Soap solution			All, aqueous		20	\	+	+	+	+	–	\	\	\	\
					40		+	+	+	+					
					60		+	+	+	O					
					80		+								
					100		+								
					120		+								
Sodium acetate	CH_3COONa		all, aqueous	1,45	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+		+		+				
					100	O	+		+						
					120		–								
Sodium benzoate	C_6H_5COONa		cold saturated,		20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+	+	+		+				
					80	+	+				+				
					100	–	+				+				
					120		+				+				
Sodium bicarbonate			all, aqueous		20	+	+	\	\	\	\	\	\	\	\
					40	+	+								
					60	+	+								
					80	+	+								
					100	–	+								
					120		–								
Sodium bisulphate			all, aqueous		20	+	+	\	\	\	\	\	\	\	\
					40	+	+								
					60	+	+								
					80	+	+								
					100	O	+								
					120		–								
Sodium bisulphite			cold saturated,	1,33	20	+	+	+	+	–	–	\	\	\	\
			aqueous		40	+	+								
					60	+	+								
					80	+	+								
					100	O	+								
					120		+								
Sodium borate	Na_3BO_3		cold saturated,		20	+	\	+	+	+	+	\	\	\	\
			aqueous		40	+					+				
					60	+					+				
					80	+									
					100	O									
					120										
Sodium bromate	$NaBrO_3$		all, aqueous	3,34	20	+	\	o	O	+	+	\	\	\	\
					40	+					+				
					60	+					+				
					80	+					+				
					100	O									
					120										
Sodium bromide	NaBr	1390	all, aqueous	1,28	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+				+				

+ Resistant
O Conditionally resistant
– Non-resistant
\ Consult Factory

Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					100	O	+				+				
					120		+				+				
Sodium carbonate	Na_2CO_3		10%, aqueous		20	+	+	+	+	+	O	\	\	\	\
					40	+	+	+	+	+	O				
					60	+	+	+	+		O				
					80	+	+		+						
					100	–	+		+						
					120		–								
Sodium chlorate	$NaClO_3$		33%, aqueous	1,34	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+				O				
					80	+	+				O				
					100	O	–				O				
					120										
			cold saturated,		20	\	+	+	+	+	+	\	\	\	\
			aqueous		40		+	+	+	+	+				
					60		+		O	O	O				
					80		+		–		–				
					100		–								
					120										
Sodium chlorate +	$NaClO_3$ + NaCl				20	+	\	–	–	+	+	\	\	\	\
sodium chloride					40	+				+	+				
					60	+					+				
					80	+					O				
					100	O									
					120										
Sodium chloride	NaCl	1440	cold saturated,	2,16	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+				+				
					100	O	+				+				
					120		+				+				
Sodium chlorite	$NaClO_2$		46%, aqueous		20	+	\	O	O	+	+	\	\	\	\
					40	+		O	O	+	+				
					60	+					O				
					80	+					–				
					100	–									
					120										
			5%, aqueous		20	+	\	+	O	+	+	\	\	\	\
					40	+		+	O	+	+				
					60	+			O		O				
					80	+									
					100	–									
					120										
Sodium chromate	Na_2CrO_4		diluted solution	1,49	20	+	\	O	O	+	+	\	\	\	\
					40	+				+	+				
					60	+					+				
					80	+					+				
					100	O					O				
					120										
Sodium cyanide	NaCN	1496	cold saturated,		20	+	\	+	+	+	O	\	\	\	\
			aqueous		40	+		+	+	+	O				
					60	+		+	+	+	O				
					80	+			+						
					100	O									
					120										

+ Resistant
O Conditionally resistant
– Non-resistant
\ Consult Factory

Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
Sodium dichromate	$Na_2Cr_2O_7 \times 2H_2O$	400	cold saturated,	2,52	20	+	\	O	O	+	+	\	\	\	\
			aqueous		40	+		O	O	+	+				
					60	+				O	+				
					80	+			+		+				
					100	O					+				
					120						O				
Sodium disulphite	$Na_2S_2O_5$	150	cold saturated,	1,48	20	\	\	+	+	+	+	\	\	\	\
			aqueous		40					+	+				
					60					+	+				
					80						+				
					100						+				
					120										
Sodium dithionite	$Na_2S_2O_4$	80	cold saturated,	2,38	20	\	\	+	+	+	+	\	\	\	\
			aqueous		40			+	+	+	+				
					60			+	+	O	+				
					80										
					100										
					120										
Sodium fluoride	NaF	1695	cold saturated,	2,79	20	+(1)	+	+	+	+	+	\	\	\	\
			aqueous		40	+(1)	+	+	+	+	+				
					60	+(1)	+	+	+	+	+				
					80	+(1)	+				+				
					100	–	–				+				
					120										
Sodium fluoro silicate	Na_2SiF_6		cold saturated,	2,68	20	+(1)	\	+	+	+	+	\	\	\	\
			aqueous		40	+(1)					+				
					60	–					+				
					80						+				
					100						O				
					120										
Sodium hydrosulfide	NaHS		aqueous	1,79	20	+	\	\	\	\	\	\	\	\	\
					40	+									
					60	+									
					80	+									
					100	–									
					120										
Sodium hydroxide	see Caustic soda solution														
Sodium hypochlorite	NaOCl		15%, aqueous		20	+(2)	\	–	–	+	O	\	O	+	\
					40	+(2)				O	O			+	
					60	+(2)					–			+	
					80	+(2)								+	
					100	–									
					120										
			12,5%, aqueous		20	+(2)	\	O	O	+	O	\	O	+	\
					40	+(2)		O	O	O	O			+	
					60	+(2)		–	–	O	O			+	
					80	+(2)					O			+	
					100	–					O				
					120						–				
			2%, aqueous		20	+(2)	\	O	O	+	O	\	\	\	\
					40	+(2)		O	O	+	O				
					60	+(2)		–	O		O				
					80	+(2)					O				
					100	–					O				
					120						–				

+ Resistant
O Conditionally resistant
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\ Consult Factory

Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
Sodium iodide	NaJ	1304	all, aqueous	3,67	20	\	\	+	+	+	+	\	\	\	\
					40						+				
					60						+				
					80						+				
					100						+				
					120						+				
Sodium nitrate	$NaNO_3$		cold saturated,	2,25	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+	+	+	O	+				
					80	+	+				+				
					100	O	+				+				
					120		+				+				
Sodium nitrite	$NaNO_2$		cold saturated,	2,27	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+		+		+				
					100	O	+				+				
					120		+								
Sodium oxalate	$Na_2C_2O_4$		cold saturated,	2,34	20	\	\	+	+	+	+	\	\	\	\
			aqueous		40						+				
					60										
					80										
					100										
					120										
Sodium perborate	$Na_2B_2O_6$ x $3H_2O$		cold saturated,	1,73	20	\	\	+	+	+	O	\	\	\	\
			aqueous		40			O	O	+	O				
					60			O	O	+					
					80										
					100										
					120										
Sodium perchlorate	$NaClO_4$ x H_2O	482	cold saturated,	2,02	20	\	\	O	O	+	+	\	\	\	\
			aqueous		40					+	+				
					60						+				
					80						+				
					100						O				
					120						–				
Sodium peroxide	Na_2O_2	750	cold saturated,	2,81	20	\	\	O	–	+	+	\	\	\	\
			aqueous		40					O	+				
					60						O				
					80						O				
					100										
					120										
Sodium phosphate	Na_3PO_4	76	10%, aqueous		20	+	\	+	+	+	+	\	\	\	\
					40	+		+	+	+	+				
					60	+		+	+	+	+				
					80	+			+		O				
					100	O					O				
					120										
Sodium silicate	Na2SiO3		all, aqueous		20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	O	+				
					80	+	+								
					100	O	–								
					120										
Sodium sulfate	Na_2SO_4		all, aqueous	2,68	20	+	+	+	+	+	+	\	\	\	\

+ Resistant

O Conditionally resistant

– Non-resistant

\ Consult Factory

Note:

(1) FRP-VEF Required

(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+				+				
					100	O	+				+				
					120		+				+				
Sodium sulfide	Na_2S		10%, aqueous		20	+	\	+	+	+	O	\	\	\	\
					40	+		+	+	+	O				
					60	+		+	+	O					
					80	+									
					100	O									
					120										
Sodium sulfite	Na_2SO_3		all, aqueous	2,63	20	+	\	+	+	+	+	\	\	\	\
					40	+		+	+	+	+				
					60	+		+	+	+	+				
					80	+			+		+				
					100	O					+				
					120										
Sodium thiocyanate	NaSCN		dilute solution		20	+	+	+	+	+	+	\	\	\	\
					40	+	+				+				
					60	+	+				+				
					80	+	+				+				
					100	–	+				O				
					120		–				–				
Sodium thiosulfate	$Na_2S_2O_3$		dilute solution	1,73	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+				+				
					100	–	–				+				
					120						+				
Soya oil				0,92	20	+	+	+	+	–	+	\	\	\	\
					40	+	+	+	+		+				
					60	+	+	O	O		+				
					80	+	+								
					100	O	+								
					120		+								
Spindle oil				0,875	20	\	\	+	–	–	–	\	\	\	\
					40										
					60										
					80										
					100										
					120										
Stannous chloride			All		20	+	+	\	\	\	\	\	\	\	\
					40	+	+								
					60	+	+								
					80	+	+								
					100	O	+								
					120		–								
Starch syrup			All		20	\	\	+	+	+	+	\	\	\	\
					40			+	+		+				
					60			+	+		+				
					80										
					100										
					120										
Stearic acid	$CH_3(CH_2)_{16}COOH$	372	technically pure	0,85	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	O	O	+	+				
					60	+	+	O	O	+	+				

+ Resistant
O Conditionally resistant
– Non-resistant
\ Consult Factory

Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					80	+	+				+				
					100	O	+				+				
					120		+								
Styrene	$CH_2CHC_6H_5$	146	technically pure	0,91	20	+	+	O	O	–	+	\	\	\	\
					40	O	+								
					60		+								
					80		+								
					100		–								
					120										
Succinic acid	$HOOC(CH_2)_2COOH$	235	cold saturated,	1,56	20	\	\	+	+	+	+	\	\	\	\
			aqueous		40			+	+	+	+				
					60			+	+	+	+				
					80										
					100										
					120										
Sulfur	S	445	technically pure	2,07	20	\	\	+	+	+	+	\	\	\	\
					40			+	+	O	+				
					60			+	+	O	+				
					80				O		+				
					100				O		+				
					120										
Sulphur dioxide	SO_2		technically pure		20	\	\	\	\	\	\	\	\	\	\
					40										
					60										
					80										
					100										
					120										
Sulphur trioxide	SO_3		technically pure		20	+	\	\	\	\	\	\	\	\	\
					40	+									
					60	+									
					80	+									
					100	O									
					120										
Sulphuric acid	H_2SO_4	338	98%	1,846	20	–	+	O	O	O	+	O	+	+	\
					40		O	–	–	–	O		+	+	
					60			–		–	–		+	+	
					80										
					100										
					120										
			93%		20	–	+	O	O	+	+	O	+	+	\
					40		+	–	–	+	+		+	+	
					60		–	–		O	+		+	+	
					80						O				
					100						–				
					120										
			80%, aqueous		20	+	+	+	+	+	+	+	+	+	\
					40	O	+	+	+	+	+		+	+	
					60		–	+	+	+	+		+	+	
					80				O		+		O	+	
					100				–		O				
					120						–				
			40%, aqueous		20	+	+	+	+	+	+	+	+	+	\
					40	+	+	+	+	+	+	+	+	+	
					60	+	+	+	+	+	+	O	+	+	
					80	+	O		+		+		+	+	
					100	O			–		+				

+ Resistant
O Conditionally resistant
– Non-resistant
\ Consult Factory

Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					120						+				
			25%, aqueous		20	+	+	+	+	+	+	+	+	+	\
					40	+	+	+	+	+	+	+	+	+	
					60	+	+	+	+	+	+	+	+	+	
					80	+	O		+		+		+	+	
					100	+			–		+				
					120	–					+				
			3%, aqueous		20	+	+	+	+	+	+	+	+	+	\
					40	+	+	+	+	+	+	+	+	+	
					60	+	+	+	+	+	+	+	+	+	
					80	+	+		+		+		+	+	
					100	+	–		+		+				
					120	–					+				
Sulphurous acid	H_2SO_3		10%, aqueous	1,03	20	+	\	+	+	+	+	\	\	\	\
					40	+		+	+	+	+				
					60	–		+	+	O	+				
					80						+				
					100						+				
					120										
Sulphuryl chloride	SO_2Cl_2	69	technically pure	1,67	20	\	\	–	–	–	+	\	\	\	\
					40						O				
					60						–				
					80										
					100										
					120										
Tallow			technically pure		20	\	\	+	+	+	+	\	\	\	\
					40			+	+	+	+				
					60			+	+	+	+				
					80										
					100										
					120										
Tannic acid			10%, aqueous		20	+	\	+	+	+	+	\	\	\	\
					40	+		+		+	+				
					60	+		+		+	+				
					80	+					+				
					100	O									
					120										
Tartaric acid	$HOOC(CHOH)_2COOH$		cold saturated,	1,76	20	+	+	+	+	+	+	\	\	\	\
			aqueous		40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+				+				
					100	O	+				+				
					120		+				+				
Tetrachloroethylene	Cl_2CCCl_2	121	technically pure	1,62	20	+	+	O	O	–	+	\	\	\	\
					40	O	+	–	–		+				
					60		+				O				
					80		O				O				
					100										
					120										
Tetraethyl lead	$Pb(C_2H_5)_4$	87	technically pure	1,65	20	\	\	+	+	+	+	\	\	\	\
					40					O	+				
					60						+				
					80						+				
					100						+				
					120										

+ Resistant
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\ Consult Factory

Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
Tetrahydrofurane	C_4H_8O	66	technically pure	0,89	20	\	\	O	O	–	O	\	\	\	\
					40			–	–		–				
					60										
					80										
					100										
					120										
Tetrahydronaphthalene	$C_{10}H_{12}$	207	technically pure	0,97	20	\	\	O	–	–	–	\	\	\	\
					40			O							
					60			–							
					80										
					100										
					120										
Thioglycolic acid	$HSCH_2COOH$	108	technically pure	108	20	\	\	–	+	–	+	\	\	\	\
					40				+		+				
					60				+		+				
					80						+				
					100										
					120										
Thionyl chloride	$SOCl_2$	79	technically pure	1,64	20	–	\	–	–	–	+	\	\	\	\
					40						O				
					60						–				
					80										
					100										
					120										
Toluene	$CH_3C_6H_5$	111	technically pure	0,87	20	+	+	O	O	–	+	\	\	\	\
					40	O	+	–	–		+				
					60		+				+				
					80		+				+				
					100		–								
					120										
Tomato sauge					20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+		+				
					60	+	+	+	+		+				
					80	+	+								
					100	–	+								
					120		+								
Transformer oil			technically pure		20	+	\	+	+	+	+	\	\	\	\
					40	+		O	O		+				
					60	+		O	–		+				
					80	–					+				
					100						+				
					120						+				
Trichloroethylene			technically pure		20	–	+	\	\	\	\	\	\	\	\
					40		+								
					60		+								
					80		–								
					100										
					120										
Trichloroacetic acid	CCl_3COOH	198	50%, aqueous		20	\	\	+	+	+	+	\	\	\	\
					40			+	+	+	+				
					60			+	+		+				
					80						O				
					100						–				
					120										
Trichloroethane	CH_3CCl_3	74	technically pure	1,35	20	\	\	O	O	–	+	\	\	\	\
					40			–	–		+				

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\ Consult Factory

Note:
(1) FRP-VEF Required
(2) FRP-VEC Required

Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					60						O				
					80						–				
					100										
					120										
Trichloroethylene	$ClCHCCl_2$	87	technically pure		20	\	+	O	O	–	+	\	\	\	\
					40		+	–	–		+				
					60		+				O				
					80		–				O				
					100						–				
					120										
Trichloromethane	see Chloroform														
Tricresyl phosphate	$OP(OC_6H_4CH_3)_3$	410	technically pure	1,96	20	+	\	+	+	–	–	\	\	\	\
					40	+		+	O						
					60	+		+	O						
					80	–									
					100										
					120										
Triethanolamine	$(HOCH_2CH_2)_3N$	360		1,12	20	+	+	+	+	–	O	\	\	\	\
					40	+	+	+	+		O				
					60	–	+	O	O		–				
					80		–								
					100										
					120										
Triethylamine	$(C_2H_5)_3N$	89	technically pure	0,73	20	+	\	–	–	–	–	\	\	\	\
					40	+									
					60	–									
					80										
					100										
					120										
Trioctyl phosphate	$(C_8H_{17})_3PO_4$		technically pure		20	\	\	+	+	–	–	\	\	\	\
					40			+							
					60			O							
					80										
					100										
					120										
Turpentine		170	technically pure	0,86	20	+	+	O	O	+	+	\	\	\	\
					40	+	+	O	O	–	+				
					60	+	+	O	–		+				
					80	+	–								
					100	O									
					120										
Urea	H_2NCONH_2	133	33%, aqueous	1,34	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	–	+								
					100		+								
					120		–								
Urine				1	20	\	\	+	+	+	+	\	\	\	\
					40			+	+	+	+				
					60			+	+	O	+				
					80						+				
					100						O				
					120						O				
Vegetable oils					20	\	\	+	+	+	+	\	\	\	\
					40			+	+	+	+				

+ Resistant
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Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm^2	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					60			O	O	+	+				
					80						+				
					100										
					120										
Vinyl acetate	$H(CH_2CHOOCCH_3)_nH$		technically pure		20	–	+	–	–	–	+	\	\	\	\
					40		+				+				
					60		–								
					80										
					100										
					120										
Vinyl chloride	CH_2CHCl	–14	technically pure		20	\	\	–	–	–	+	\	\	\	\
					40						+				
					60						+				
					80						O				
					100						–				
					120										
Viscose spinning	$H_2SO_4 + NaSO_4 + ZnSO_4$				20	\	\	+	+	+	+	\	\	\	\
solution					40			+	+	+					
					60			+	+	O					
					80				O						
					100										
					120										
Water, condensed					20	+	\	+	+	+	+	\	\	\	\
					40	+		+	+	+	+				
					60	+		+	+	+	+				
					80	+			+		+				
					100	–									
					120										
Water, distilled	H_2O	100	aqueous	1	20	\	\	+	+	+	+	\	\	\	\
					40			+	+	+	+				
					60			+	+	O	+				
					80				+		+				
					100				+		+				
					120						+				
Water, drinking	H_2O				20	\	\	+	+	+	+	\	\	\	\
					40			+	+	+	+				
					60			+	+	+	+				
					80				+		+				
					100				+		+				
					120						+				
Water, sea	NaCl		3,5%, aqueous	1,01	20	+	+	+	+	+	+	\	\	\	\
					40	+	+	+	+	+	+				
					60	+	+	+	+	+	+				
					80	+	+		+		+				
					100	–	+								
					120		+								
Water, waste water					20	\	\	+	+	+	+	\	\	\	\
with organic solvents					40					O	+				
					60						+				
					80						+				
					100						+				
					120						+				
Wax alcohol	$C_{32}H_{65}OH$		technically pure		20	\	\	O	O	+	+	\	\	\	\
					40			O	–	+	+				
					60			–		+	+				
					80										

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Medium	Formula	Boiling point °C	Concentration	Specific gravity Kg/dm²	Temperature °C	FRP-VES	FRP-EPX	PE	PP	PVC	PVDF	EPDM	FPM	FEP	FFKM
					100										
					120										
Whey					20	+	\	+	+	+	+	\	\	\	\
					40	+		+	+	+	+				
					60	+		+	+		+				
					80	–									
					100										
					120										
Xylene	$H_3CC_6H_4CH_3$	140	technically pure	0,86	20	+	+	O	O	–	+	\	\	\	\
					40	O	+	–	–		+				
					60		+				+				
					80		+				+				
					100		–				O				
					120						O				
Yeast					20	\	\	+	+	+	+	\	\	\	\
					40			+	+	+	+				
					60			+	+	+	+				
					80										
					100										
					120										
Zinc chloride	$ZnCl_2$	732		2,91	20	+	\	+	+	+	+	\	\	\	\
					40	+		+	+	+	+				
					60	+		+	+	+	+				
					80	+			+		+				
					100	+					+				
					120	+									
Zinc cyanide	$Zn(CN)_2$		All, aqueous	1,88	20	\	\	+	+	+	+	\	\	\	\
					40			+	+	+	+				
					60						+				
					80						+				
					100						+				
					120										
Zinc sulfate	$ZnSO_2$	600	cold saturated,	3,54	20	+	\	+	+	+	+	\	\	\	\
			aqueous		40	+		+	+	+	+				
					60	+		+	+	+	+				
					80	+			+		+				
					100	+					+				
					120	+					+				

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