

Chemicals: Methylene Chloride - Nitrobenzene

(A) Excellent = Recommended    (B) Good = Recommended    (C) Fair (limited life)    (X) Not Recommended

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE																																																									
		°C	°F											°C	°F																																																																	
Methylene Chloride CH <sub>2</sub> Cl <sub>2</sub>	**	20	68	X	X	X	B	A	C	X	X	Nickel Dichloride NiCl <sub>2</sub>	Satu	20	68	A	A	A	A	A	A	A	A	A	40	104	A	A	A	A	A	A	A	A	A	60	140	A	A	A	A	A	A	A	A	A	80	176		A	A	A	A	A	A	A	A	100	212				A	A	A				120	248				A	A					
		40	104				B	A							60	140				A	A						80	176				A	A					100	212				A	A					120	248				A	A																									
		60	140				X	A							80	176				A	A						100	212				A	A					120	248				A	A																																				
		80	176						A	A						100	212				A	A						120	248				A	A																																														
		100	212						A	A						120	248				A	A																																																										
		120	248						A	A																																																																						
Methylene Iodine CH <sub>2</sub> I <sub>2</sub>		20	68				A	A	A			Nickel Nitrate Ni(NO <sub>3</sub> ) <sub>2</sub>	Satu	20	68	A		A	A	A	A	A	A	A	40	104	A		A	A	A	A	A	A	A	60	140	A		A	A	A	A	A	A	A	80	176			A	A	A	A	A	A	B	100	212				A	A	A				120	248				A	A	A				
		40	104				A	A						60	140				A	A						80	176				A	A					100	212				A	A					120	248				A	A																										
		60	140				A	A							100	212				A	A						120	248				A	A																																															
		80	176						A	A						120	248				A	A																																																										
		100	212						A	A																																																																						
		120	248						A	A																																																																						
Monochloroacetic acid ClCH <sub>2</sub> COOH	50	20	68	A	A	B	A	A	B	C	X	Nickel Sulfate NiSO <sub>4</sub>	Satu	20	68	A	A	A	A	A	A	A	A	A	40	104	A	A	A	A	A	A	A	A	A	60	140	A	A	A	A	A	A	A	A	A	80	176			A	A	A	A	A	A	A	100	212				A	A			B		120	248					A	A				
		40	104	B	B	B	A	A	X						60	140				A	A						80	176				A	A					100	212				A	A					120	248				A	A																									
		60	140	B	B	X	A	A							120	248				A	A																																																											
		80	176				A	A																																																																								
		100	212						A																																																																							
		120	248						A																																																																							
Monochlorobenzene C <sub>6</sub> H <sub>5</sub> Cl		20	68	X	X	B	A	A	B	X	X	Nicotine C <sub>10</sub> H <sub>14</sub> N <sub>2</sub>		20	68	A		A	A	A					40	104	A		A	B	A					60	140	A				A					80	176				B	A					100	212				B	A					120	248					A					
		40	104			C	A	A							60	140										80	176										100	212										120	248																															
		60	140				A	A							120	248																																																																
		80	176				A	A																																																																								
		100	212						B	A																																																																						
		120	248																																																																													
Monoethanolamine (Ethanolamine) H <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> OH		20	68	X	X		X	A		A	A	Nicotinic Acid C <sub>3</sub> H <sub>4</sub> NCOOH		20	68	A		A	A	A			A		40	104	A		A	A	A					60	140	A		A	A	A					80	176				A	A	A				100	212					A	A				120	248					A	A				
		40	104					A							120	248																																																																
		60	140																																																																													
		80	176																																																																													
		100	212																																																																													
		120	248																																																																													
Monomethylaniline C <sub>6</sub> H <sub>5</sub> NHCH <sub>3</sub>		20	68				A	A	A	X	X	Nitric Acid HNO <sub>3</sub>	10	20	68	A	A	A	A	A	A	A	A	X	40	104	A	A	A	A	A	A	A	A	A	60	140	A	A	A	A	A	A	A	A	B	80	176			B	B	A	A	A	A	X	100	212					A	A	A			120	248					A	A				
		40	104				B	A							120	248																																																																
		60	140				X	A																																																																								
		80	176					A																																																																								
		100	212																																																																													
		120	248																																																																													
Morpholine O(CH <sub>2</sub> CH <sub>2</sub> ) <sub>2</sub> NH	Pure	20	68	X	X	A	A	A	A	C	X	Nitric Acid HNO <sub>3</sub>	* 30	20	68	A	A	A	A	A	A	A	A	B	X	40	104	A	B	A	A	A	A	A	A	B	60	140	B	C	B	A	A	B	X			80	176		X	B	A	A	C				100	212					A	A	C			120	248					B	A			
		40	104				A	A							120	248																																																																
		60	140				A	C	A																																																																							
		80	176					A																																																																								
		100	212																																																																													
		120	248																																																																													
Naphtha		20	68	A		A	A	A	A	X	B	Nitric Acid HNO <sub>3</sub>	* 50	20	68	A	A	A	A	A	A	A	A	X	X	40	104	B	B	B	A	A	B				60	140	B	C	C	A	A	C				80	176		X	X	A	A	X				100	212				A	A					120	248				A	A				
		40	104				B	A							120	248																																																																
		60	140				C	A																																																																								
		80	176					A																																																																								
		100	212					A																																																																								
		120	248					A																																																																								
Naphthalene C <sub>10</sub> H <sub>8</sub>		20	68	X		B	A	A	A	X	X	Nitric Acid HNO <sub>3</sub>	* 70	20	68	A	B	C	A	A	C	X	X	40	104	B	C	X	A	A	X				60	140	C	X		B	A					80	176				C	A					100	212					X	A				120	248											
		40	104				A	A							120	248																																																																
		60	140				A	A																																																																								
		80	176				A	A																																																																								
		100	212				A	A																																																																								
		120	248				A	A																																																																								
Natural Gas		20	68	A			A	A	A	A	A	Nitric Acid HNO <sub>3</sub>	* 98	20	68	X	X	X	A	A	C	X	X	40	104				B	B					60	140				X	B					80	176					C					100	212					C					120	248											
		40	104	A			A	A							120	248																																																																
		60	140	B			A	A																																																																								
		80	176				A	A																																																																								
		100	212					A																																																																								
		120	248					A																																																																								
Nickel Acetate (CH <sub>3</sub> CO <sub>2</sub> ) <sub>2</sub> Ni	Satu	20	68	A	A	A	A	A	C	A	A	Nitrobenzene C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub>		20	68	X	X	A	B	A	B	B	X	40	104				B	C	A				60	140	A	A	A	A	A					80	176			A	A	A					100	212				A	A					120	248				A	A						
		40	104	A	A	A	A	A							120	248																																																																
		60	140	A	A	A	A	A																																																																								
		80	176			A	A	A																																																																								
		100	212				A	A																																																																								
		120	248				A	A																																																																								

\*\*Methylene Chloride: PP & Viton recommended at 1 gm/litre concentration. \*When DV Series Diaphragm Valves are used on nitric acid, the PVDF Gas Barrier is always recommended if a Teflon diaphragm.