Chemicals: Methylene Chloride - Nitrobenzene

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

Chemical	Concentration (%)	Temp. °C	Temp. °F	PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE
Methylene Chloride CH_2Cl_2	**	20	68	X	X	X	B	A	C	X	X
		40	104				B	A			
		60	140				X	A			
		80	176								
		100	212								
		120	248								
Methylene Iodine CH_2I_2		20	68				A	A	A		
		40	104				A	A			
		60	140				A	A			
		80	176					A			
		100	212					A			
		120	248					A			
Monochloro-acetic acid $ClCH_2COOH$	50	20	68	A	A	B	A	A	B	C	X
		40	104	B	B	B	A	A	X		
		60	140	B	B	X	A	A			
		80	176				A	A			
		100	212					A			
		120	248								
Monochloro-benzene C_6H_5Cl		20	68	X	X	B	A	A	B	X	X
		40	104			C	A	A			
		60	140				A	A			
		80	176				B	A			
		100	212				B	A			
		120	248								
Monoethanol-amine (Ethanolamine) $H_2NCH_2CH_2OH$		20	68	X	X		X	A		A	A
		40	104					A			
		60	140								
		80	176								
		100	212								
		120	248								
Monomethy-laniline $C_6H_5NHCH_3$		20	68				A	A	A	X	X
		40	104				B	A			
		60	140				X	A			
		80	176					A			
		100	212								
		120	248								
Morpholine $O(CH_2CH_2)_2NH$	Pure	20	68	X	X	A	A	A	A	C	X
		40	104			A	A	A			
		60	140			A	C	A			
		80	176					A			
		100	212								
		120	248								
Naphtha		20	68	A		A	A	A	A	X	B
		40	104			B	A	A			
		60	140			C	A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Naphthalene $C_{10}H_8$		20	68	X		B	A	A	A	X	X
		40	104				A	A	A		
		60	140				A	A	A		
		80	176				A	A	A		
		100	212				A	A			
		120	248				A	A			
Natural Gas		20	68	A			A	A	A	A	A
		40	104	A			A	A			
		60	140	B			A	A			
		80	176				A	A			
		100	212					A			
		120	248					A			
Nickel Acetate $(CH_3CO_2)_2Ni$	Satu	20	68	A	A	A	A	A	C	A	A
		40	104	A	A	A	A	A			
		60	140	A	A	A	A	A			
		80	176		A	A	A	A			
		100	212				A	A			
		120	248				A	A			

Chemical	Concentration (%)	Temp. °C	Temp. °F	PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE
Nickel Dichloride $NiCl_2$	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	A
		100	212				A	A	A		
		120	248				A	A			
Nickel Nitrate $Ni(NO_3)_2$	Satu	20	68	A		A	A	A	A	A	A
		40	104	A		A	A	A	A	A	A
		60	140	A		A	A	A	A	A	A
		80	176			A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A			
Nickel Sulfate $NiSO_4$	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		B	B	A	A	A	A	A
		100	212				A	A	B		
		120	248				A	A			
Nicotine $C_{10}H_{14}N_2$		20	68	A		A	A	A			
		40	104	A		A	B	A			
		60	140	A				A			
		80	176					A			
		100	212					A			
		120	248					A			
Nicotinic Acid C_3H_4NCOOH		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			
Nitric Acid HNO_3	10	20	68	A	A	A	A	A	A	A	X
		40	104	A	A	A	A	A	A	A	
		60	140	A	A	A	A	A	A	B	
		80	176		B	B	A	A	A	X	
		100	212				A	A	A		
		120	248				A	A			
Nitric Acid HNO_3	* 30	20	68	A	A	A	A	A	A	B	X
		40	104	A	B	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			
Nitric Acid HNO_3	* 50	20	68	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				C	A			
		120	248					A			
Nitric Acid HNO_3	* 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								
Nitric Acid HNO_3	* 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								
Nitrobenzene $C_6H_5NO_2$		20	68	X	X	A	B	A	B	B	X
		40	104			B	C	A			
		60	140			C	X	A			
		80	176					A			
		100	212					A			
		120	248					A			

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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.