

Poseidon Chemical Compatibility

Chemical Name	Compatible with Holder	Safe for Flow	Viton	P-REX	In Column Approved	Temperature Limitations
Acetic Acid <20%	•	•	•	•	•	
Acetone	•	•	X	•		RT-56 °C
Ammonium Chloride (24%)	•	•	•	•		
Ammonium Hydroxide (28%)	•	•	•	•		
Ammonium Sulfate	•		•	•		
Aqua Regia	X	X	X	X	X	X
Benzene	•	•	•	•	•	RT-80 °C
Bleach Solutions <20% (Sodium hypochlorite)	•	•	•	•		
Bromine	X	X	X	X	X	X
Calcium Chloride (38%)	•	•	•	•		
Carbon Tetrachloride	•	•	•	•	•	RT-76 °C
Chloroform	•	•	•	•	•	RT-61 °C
Citric Acid	•	•	•	•	X	
Copper Sulfate	•	•	•	•	X	
Cyclohexane	•	•	•	•	•	RT-80 °C
Diethyl ether	•	•	X	•		RT-34°C
Diethylamine	•	•	•	•	•	
Dimethyl Sulfoxide	•	X	X	•	•	
Dimethyl Formamide	•	•	X	•	X	
Ethanol	•	•	•	•		RT-78°C
Ethylene Diamine	•	•	•	•		RT-77°C
Ethyl Acetate	•	•	X	•		
Ethylene Glycol	•	X**	•	•		
Gasoline	•	•	•	•		
Glycerin	•	X**	•	•	X	
Gold Chloride	•	•	•	•	X	
HEPES Buffer	•	•	•	•	X	
Hexane	•	•	•	•	•	RT-68°C
Hydrogen Peroxide (30%)	•	•	•	X		
Hydrochloric Acid (2%)	•	•	•	•	•	RT-80 °C
Hydrofluoric Acid	X	X	X	X	X	X
Isobutanol	•	•	•	•		
Isopropanol	•	•	•	•	•	RT-82°C
Ketones		•	X			
Kerosene	•	•	•	•		
Magnesium Sulfate	•	•	•	•		
Methanol	•	•	X	•		RT-64°C
Methylene Chloride	•	•	•	•	•	RT-39°C
Mineral Oil	•	X**	•	•		
Nitric Acid (10%)	•	•	•	•	X	
Oleic Acid (40%)	•	X**	•	•	•	

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Petroleum Oil	•	X**	•	•		
Phosphate Buffered Saline	•	•	•	•		
Phosphoric Acid	X	X	X	X	X	X
Potassium Hydroxide	X	X	X	X	X	X
Pyridine	•	•	X	•		
Sodium Bicarbonate (50%)	•	•	•	•		
Sodium Carbonate (20%)	•	•	•	•		
Sodium Chloride (30%)	•	•	•	•		
Sodium Hydroxide (10%)	•	•	X	•	X	X***
Sodium Nitrate	•	•	•	•		
Sodium Phosphate (5%)	•	•	•	•		
Sulfuric Acid (< 5%)	•	•	•	•	•	
Tannic Acid (10%)	•	•	•	•		
Tartaric Acid	•	•	•	•		
Tetrahydrofuran	•	•	X	•		RT-66°C
Toluene	•	•	X	•		
Trichloroacetic Acid	X	X	X	X	X	X
Vegetable Oil	•	X**	•	•		
Water	•	•	•	•	•	
Urea	•	•	•	•		
Xylene	•	•	•	•	•	
Zinc Chloride	•	•	•	•		
* Possibility of degrading PEEK tubing over extended use						
** Viscosity is too high for safe flow if undiluted						
*** Solutions containing NaOH may be used at room temperature only due to the increased risk of SiN						