

Reagent	Specific Gravity	% By WT.	Molarity	M.W.	mls/Liter
H <sub>2</sub> SO <sub>4</sub>	1.84	96	17.9	98.08	27.8 (1 normal)
HCl	1.19	37	12.07	36.47	82.83
H <sub>3</sub> PO <sub>4</sub>	1.69	86	14.83	98	67.4
HNO <sub>3</sub>	1.42	71	16	63.02	62.5
NH <sub>4</sub> OH	0.9	28.4 (as NH <sub>3</sub> )	14.9	35.05/17	66.6
CH <sub>3</sub> COOH	1.05	99.6	17.42	60.05	57.4
CHOOH	1.22	100	28.4	46.03	35.2
Glycerol	1.26	100	13.68	92.11	73.1
EtOH (abs)	0.79	100	17.14	46.07	58.3
EtOH (95%)	0.81	95	16.7	46.07	59.9
MeOH	0.796	100	24.84	32.04	40.25
HClO <sub>4</sub>	1.664	60	9.91	110465	86.26
Acetone	0.792	100	13.64	58.08	73.3
Thioglycerol	1.295	100	12	108.16	83.3
2-Mercaptoethanol	1.114	100	14.26	78.14	70.14
Triethanolamine	1.124	100	7.534	149.19	132
Alamine 336	0.81	95	1.963	392	509
DMS	1.1	100	14.08	78.13	71.03
DMF	0.9445	100	12.92	73.09	77.4
Piperidine	0.8606	100	10.1	85.15	
Ethanolamine	1.0117	100	16.56	61.08	

Density = Mass/Volume

Specific Gravity = Density of substance/Density of water (1g/cm<sup>3</sup>)

M (Molarity) = ((%conc.)\*(spec. Grav) \* 1000)/M.W.