

Concentrations of Commonly Used Laboratory Reagents

Reagent	Specific Gravity	Approx. % Acid or Base Present in Concentrated Reagent (by weight)	Weight of Acid of base (gms) in Solution per liter of Reagent (Ave.)	Molecular Weight	Normality of Concentrated Reagent
Hydrochloric Acid	1.18	37.0	442	36.46	11.6
Nitric Acid	1.42	70.0	989	63.02	16
Perchloric Acid	1.67	70.0	1169	100.46	11.6
Sulfuric Acid	1.84	96.0	1772	98.08	36
Phosphoric Acid	1.69	85.0	1436	98.00	44
Formic Acid	1.20	90.0	1084	46.03	24
Glacial Acetic Acid	1.05	99.5	1053	60.05	17.4
Ammonium Hydroxide	0.90	58 (NH ₄ OH) 29 (NH ₃)	535	35.05	15

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