

pH Testing and Measurement Tools

Acid-base indicators are weak organic acids with defined pH ranges. When added singularly or in combination to a clear colorless solution, the color of the mixture changes depending on its pH.

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Indicators and Stains	pH Ranges and Color Changes of Carolina Acid-Base Indicators and Stains															Recommended Preparation
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Eosin Y (Stain)																1%
Methyl Violet (Stain)																0.01-0.05%
Malachite Green (Stain)																1%
Crystal Violet (Stain)																1%
m-Cresol Purple																0.1%
Bromphenol Blue																0.04%
Congo Red																0.1%
Methyl Orange																0.05%
Bromocresol Green (Stain)																0.04%
Methyl Red																0.02%
Alizarin Red																0.1%
Litmus																1.0%
Chlorophenol Red																0.1%
Bromocresol Purple																0.4%
Bromthymol Blue																0.04%
Neutral Red (Stain)																1%
Phenol Red																0.04%
Cresol Red																0.2%
m-Nitrophenol																0.3% in 95% Ethanol
Thymol Blue																0.04%
Phenolphthalein																1% in 95% Ethanol
Thymolphthalein																0.04% in 50% Ethanol
Nile Blue (Stain)																0.1%
Aniline Blue																0.1%
Alizarin Yellow R																0.01%
Orange G																0.1%
Fuchsin Basic (Stain)																1%
Indigo Carmine (Stain)																0.25% in 50% Ethanol
Bogen Universal	1	2	3	4	5	6	7	8	9	10	11	12	13	14		