

Appendix K: The Color Changes and pH Intervals of Some Important Indicators

Note: Not all of these indicators may be available in lab.

Name of indicator	pH interval	Color change
Methyl violet	0.2 - 3.0	Yellow, blue, violet
Thymol blue	1.2 - 2.8	Red to yellow
Orange IV (tropheolin OO)	1.3 - 3.0	Red to yellow
Benzopurpurin 4B	1.2 - 4.0	Violet to red
Methyl orange	3.1 - 4.4	Red to orange to yellow
Bromphenol blue	3.0 - 4.6	Yellow to blue violet
Congo red	3.0 - 5.0	Blue to red
Bromcresol green	3.8 - 5.4	Yellow to blue
Methyl red	4.4 - 6.2	Red to yellow
Chlorphenol red	4.8 - 6.8	Yellow to red
Bromcresol purple	5.2 - 6.8	Yellow to purple
Litmus	4.5 - 8.3	Red to blue
Bromthymol blue	6.0 - 7.6	Yellow to blue
Phenol red	6.8 - 8.2	Yellow to red
Thymol blue	8.0 - 9.6	Yellow to blue
Phenolphthalein	8.3 - 10.0	Colorless to red
Thymolphthalein	9.3 - 10.5	Yellow to blue
Alizarin yellow R	10.0 - 12.0	Yellow to red
Indigo carmine	11.4 - 13.0	Blue to yellow
Trinitrobenzene	12.0 - 14.0	Colorless to orange

