

## Indicators:

Substances that can be used to detect the presence of acids and bases

The indicator will appear as one color in the presence of high concentrations of  $H^+$  (acid solution) and another color when the  $H^+$  concentration is low (base solution)

<b>COMMON INDICATORS AND THEIR COLOR CHANGES</b>				
<b>Indicator</b>	<b>Acid</b>	<b>Color</b>		<b>pH of Transition Interval</b>
		<b>Transition</b>	<b>Base</b>	
methyl violet	yellow	aqua	blue	0.0 - 1.6
methyl yellow	red	orange	yellow	2.9 - 4.0
bromphenol blue	yellow	green	blue	3.0 - 4.6
methyl orange	red	orange	yellow	3.2 - 4.4
methyl red	red	buff	yellow	4.8 - 6.0
litmus	red	pink	blue	5.5 - 8.0
bromthymol blue	yellow	green	blue	6.0 - 7.6
phenol red	yellow	orange	red	6.6 - 8.0
phenolphthalein	colorless	pink	red	8.2 - 10.6
thymolphthalein	colorless	pale blue	blue	9.4 - 10.6
alizarin yellow	yellow	orange	red	10.0 - 12.0