

Indicators

Chemistry

Which indicator suits which titration, and why.

Indicator range against titration type.

Titration	pH at equivalence	Indicator
Strong acid–strong base	7	Either
Strong acid–weak base	<7	Methyl orange
Weak acid–strong base	>7	Phenolphthalein
Weak acid–weak base	~7	None suitable

Methyl orange: red to yellow, pH 3.1–4.4. Phenolphthalein: colourless to pink, pH 8.3–10.0.