Summary of titration curves

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| --- | --- |
| **equivalence point:** the reactants have been added in equivalent proportions so no excess of either.  **pH = pKa** exactly half-way to the equivalence point of a titration  the **buffer zone** is the pH range at which the buffer solution is effective, indicated by | |
|  |  |
| bromothymol blue 6.0 🡪 7.6 **yellow** 🡪 **blue** | |

|  |  |
| --- | --- |
| ­­­  **pKa**  of conjugate acid  **pKa**  of  conjugate acid |  |
| methyl orange 3.2 🡪 4.4 **red** 🡪 **yellow** | |

|  |  |
| --- | --- |
| **pKa** | **pKa** |
| phenolpthalein 8.2 🡪 10.0 **colourless** 🡪 **pink** | |

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