

Sample calculations (fill and submit this page with your lab report)

These calculations are for the part B of the experiment (K value determination)

1. Calculate $[\text{Fe}^{3+}]_0$ and $[\text{SCN}^-]_0$ in the test tube 2.

2. Determine $[\text{Fe}^{3+}]_{\text{eq}}$ and $[\text{SCN}^-]_{\text{eq}}$ in the test tube 2.

3. Calculate the value for K for test tube 2.

$$K = \frac{[\text{Fe}(\text{SCN})^{2+}]}{[\text{Fe}^{3+}][\text{SCN}^-]}$$

4. Calculate the average value for K.
(You can exclude one value from the average calculation).

K_{average} : _____ (with the correct number of s.f.)