

Partition of butanedioic acid between water and butan-1-ol

Teacher and technician worksheet

Health and safety note

Make sure that students wear eye protection and that there are no naked flames. Butan-1-ol is harmful and flammable. 0.05 mol dm^{-3} sodium hydroxide solution is an irritant.

Equipment and materials

Each student or pair of students will require:

- 100 cm^3 separating funnels with stoppers x 4
- 250 cm^3 conical flasks x 4
- 50 cm^3 burettes x 2
- 5 cm^3 pipettes with fillers x 2
- Boiling tubes with bungs to fit x 8
- 0.02 g dm^{-3} aqueous butanedioic acid solution
- Butan-1-ol – Harmful, Flammable
- 0.05 mol dm^{-3} sodium hydroxide solution – Irritant
- Phenolphthalein indicator solution – Highly flammable, Harmful