

Preparation of ammonium dihydrogenphosphate

Teacher and technician sheet

Equipment and materials

Each student or pair of students will require:

- Evaporating basin
- Tripod and gauze
- Bunsen burner
- 10 cm³ pipette
- Burette and stand
- 100 cm³ conical flask
- Filter funnel, filter paper and conical flask (to stand funnel on)
- Glass rod
- 1 mol dm⁻³ phosphoric acid
- 1 mol dm⁻³ ammonia solution
- Methyl orange indicator solution

Make sure students wear eye protection. 1 mol dm⁻³ ammonia solution and 1 mol dm⁻³ phosphoric acid are irritants to the eyes, lungs and the respiratory system. Work in a well-ventilated lab.

Further suggestions

Students could test the effectiveness of their product as a fertiliser.