



AS PRACTICAL 15

Identifying Organics 1 (Plan)

Aim

You will research, plan and carry out an experiment to distinguish five organic compounds by a series of test tube reactions.

- propanal
- 1-bromobutane
- cyclohexene
- ethanol
- ethanoic acid

Sodium can be used to test for alcohols but you may not use this test.

In your plan you must:

- Choose suitable tests that would clearly identify each compound from each other.
- Plan to do the tests in a logical sequence to prevent too many tests being done unnecessarily.
- Give practical details for how you would carry out each test, including the expected results.
- Suggest why we are not letting you use sodium to test for alcohols.
- Identify at least one more alternative chemical test that you have chosen not to use – and explain why you have chosen not to use it.
- Carry out a full risk assessment, identifying hazards and ways in which risks are controlled (you may find CLEAPSS student safety sheets (can be accessed online) and/or Hazcards useful).
- Cite every reference used in a bibliography (use Harvard referencing).
- Prepare a results table ready to insert your results for each compound with space to give the identity of each compound.