

2. Synthesis of methyl orange

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Date of report submission (yyyy/mm/dd):_____

Dates of experiment (yyyy/mm/dd) 1st day: _____; 2nd day: _____

Write concisely (in the space provided)

【Summary of Experiment】

[illegible]

【Questions】

- 1 . Write a flowchart for the synthesis of methyl orange, and note the observed changes in the reaction mixture and sample.
- 2 . Explain the observed changes in the reaction solution / sample in relation to the reaction formulae and structural formulae.
- 3 . Explain why methyl orange is orange-yellow in alkaline solutions and orange-red in acidic solutions in relation to structural changes.