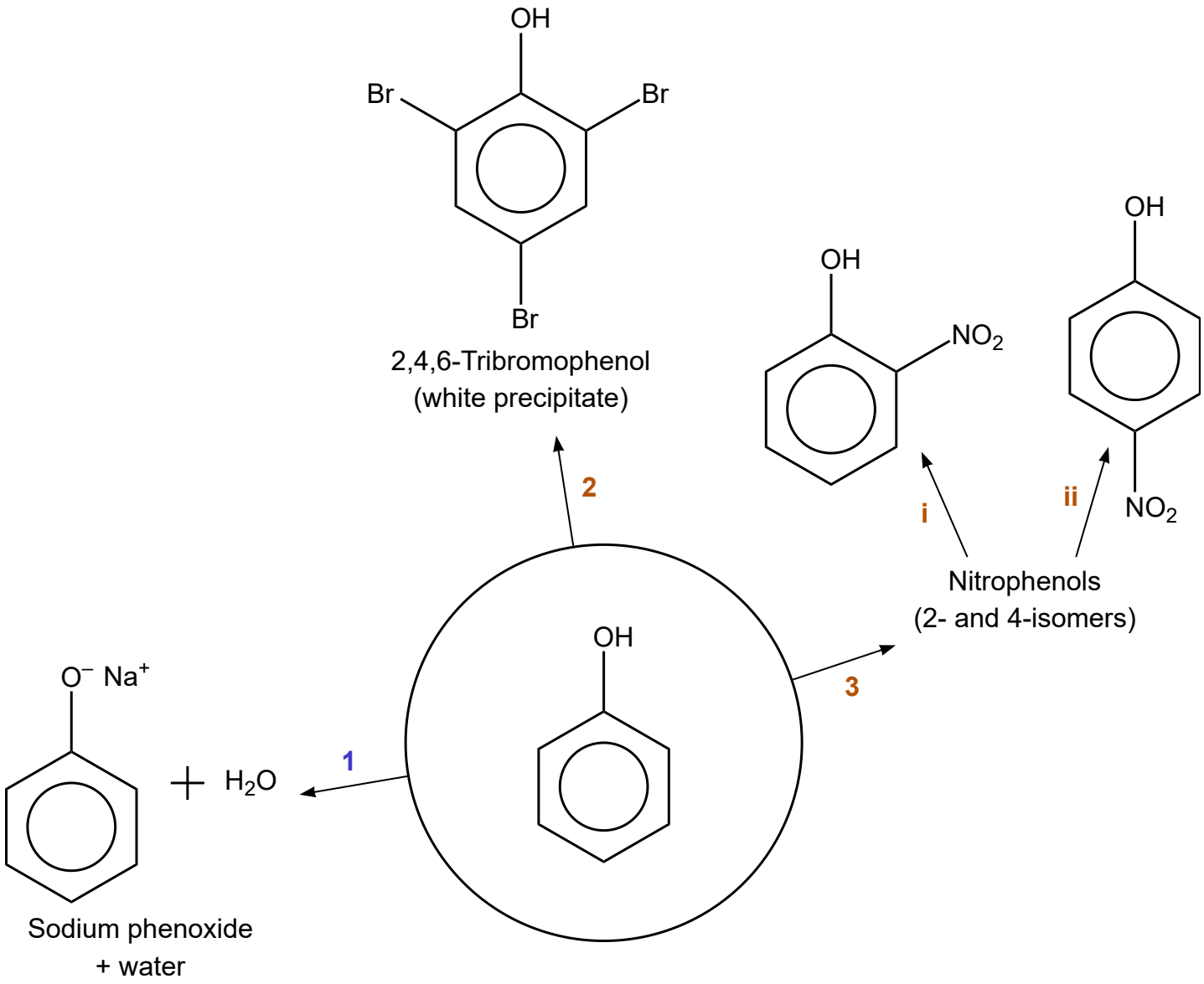
Phenol Map

OCR A Level Chemistry A · 6.1.1 Aromatic compounds



1 **acid-base**: NaOH(aq), room temperature (neutralisation)

2 **substitution (electrophilic)**: Br_2(aq), room temperature; no halogen carrier

3 **substitution (electrophilic)**: dilute HNO_3, room temperature
i 2-nitrophenol
ii 4-nitrophenol

Phenol is a weak acid: it reacts with NaOH but not with carbonates (no effervescence), unlike carboxylic acids.
The O lone pair donates into the ring, so phenol is substituted more easily than benzene.

acid-base substitution

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