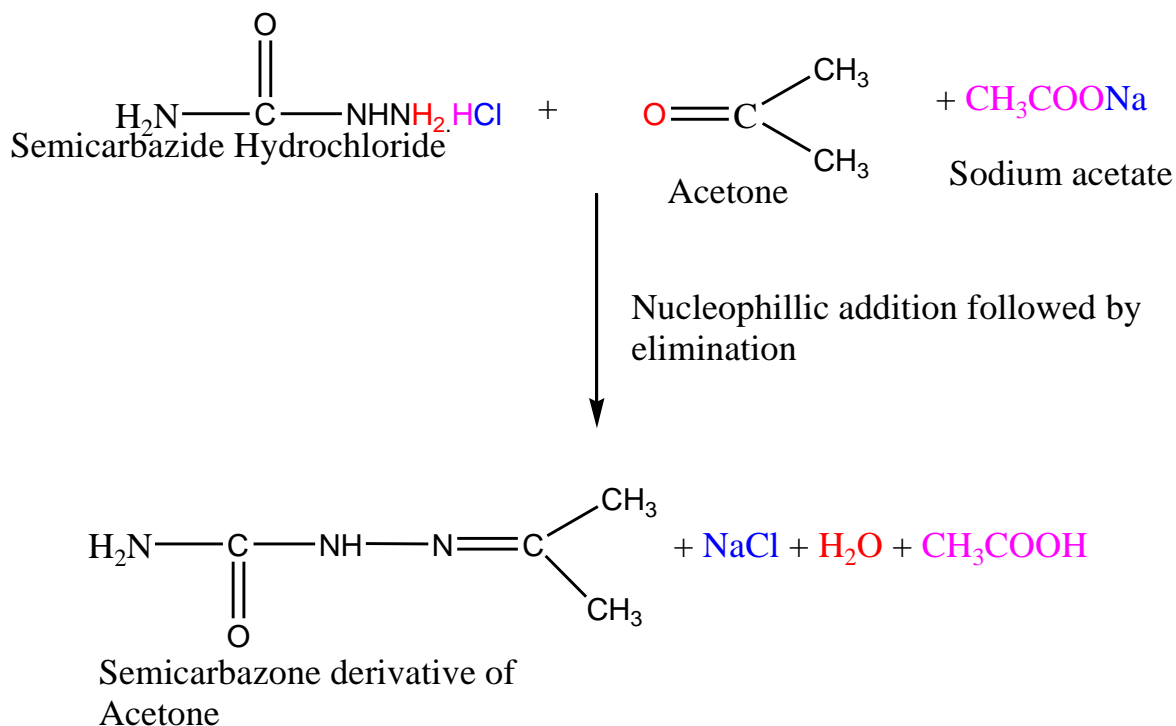


AIM: To prepare semicarbazone derivative of acetone and report its melting point

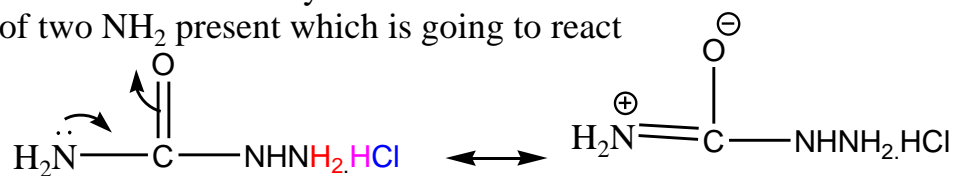


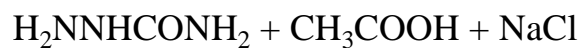
1. Why do we take semicarbazide hydrochloride instead of semicarbazide
Semicarbazide is not stable and readily oxidizes in air

2. Role of sodium acetate

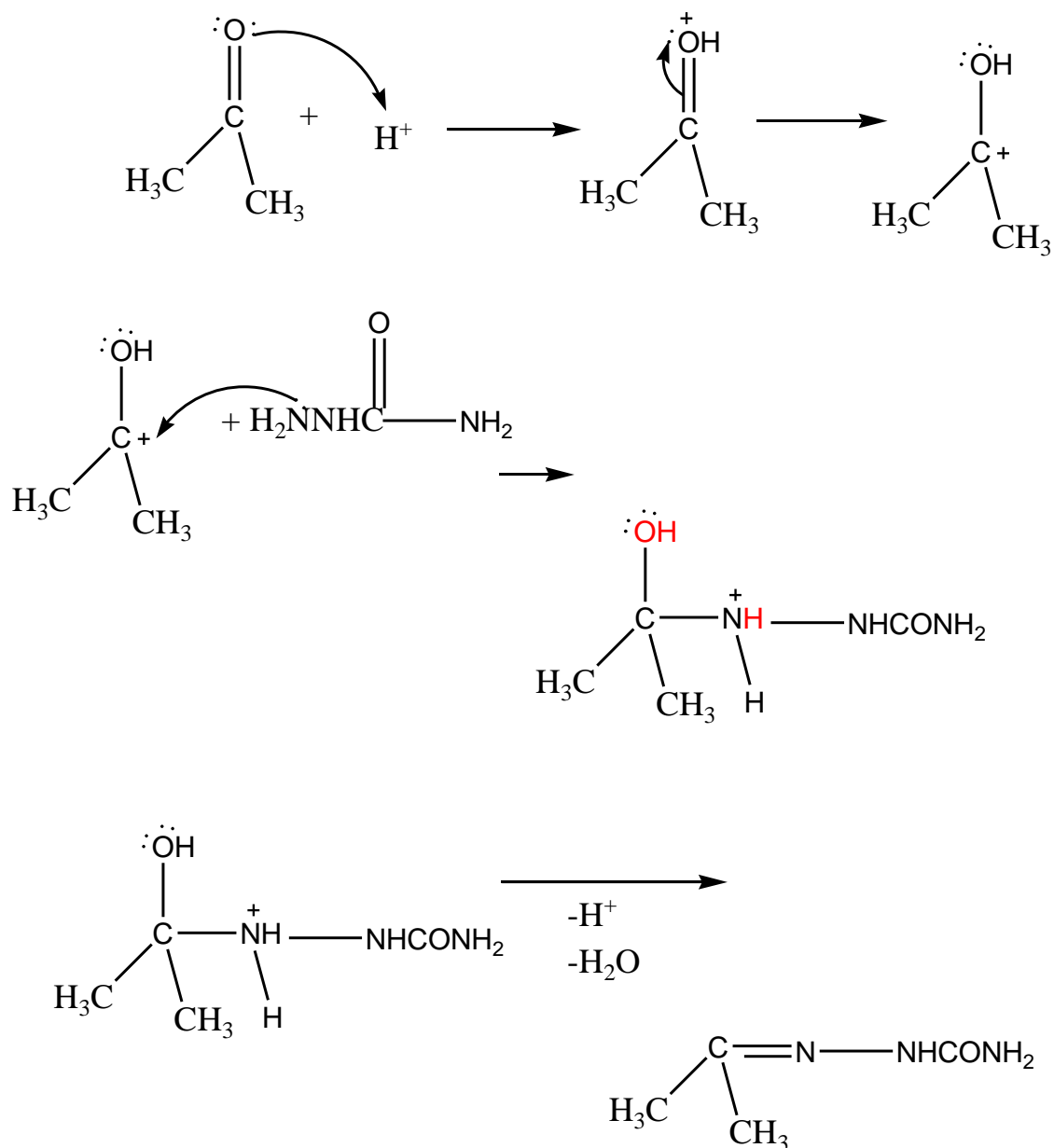
To free the semicarbazide hydrochloride into semicarbazide

3. Out of two NH_2 present which is going to react





MECHANISM



The acetic acid so formed acts as a catalyst in the reaction by protonating the oxygen of the carbonyl group.