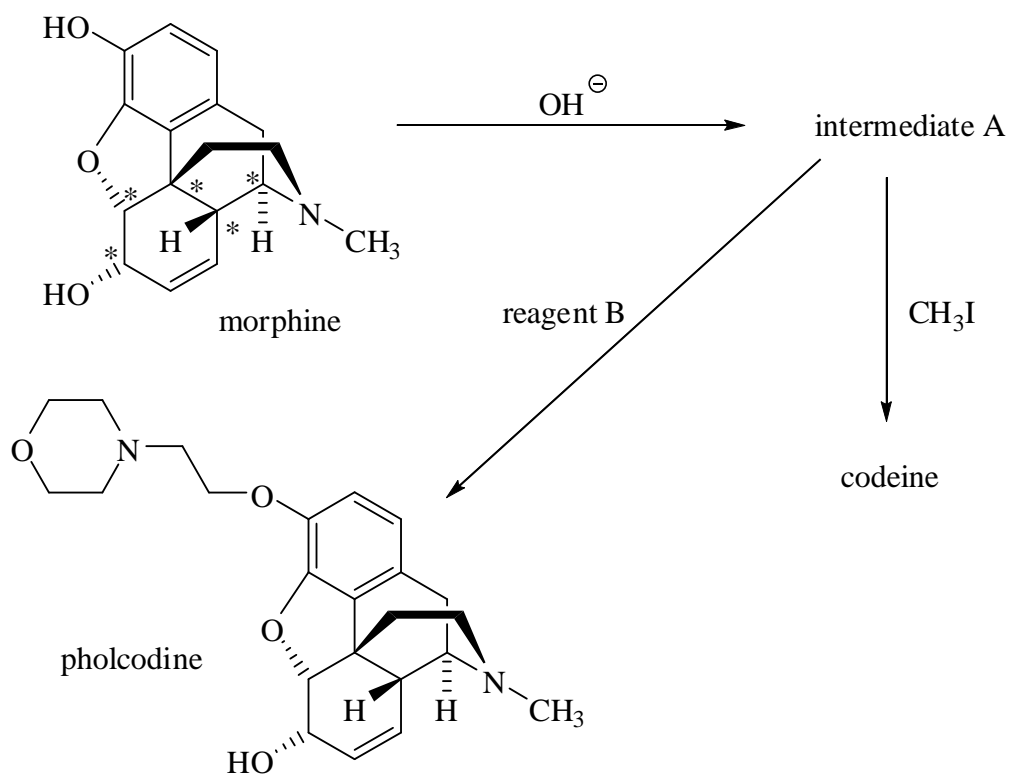


- Morphine is the principal active agent in opium and is a highly potent analgesic drug. Its structure and conversion into codeine (a moderate analgesic) and pholcodine (a cough suppressant) are shown below.



Give the molecular formula of morphine.



Identify the functional groups present in morphine.

**phenol, amine, alcohol, ether, alkene**