

0 Phenol can be distinguished from ethanol by the reactions with

(a) Br_2/water

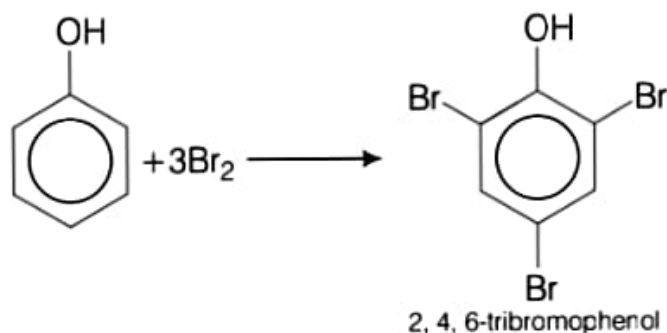
(b) Na

(c) neutral FeCl_3

(d) All of these

(a, c)

Ethanol does not react with Br_2/water while phenol gives 2, 4, 6-tribromophenol as white precipitate.



Ethanol and phenol both react with sodium, so phenol cannot be distinguished from ethanol by the reaction with sodium.

Ethanol does not give any reaction with neutral FeCl_3 solution while phenol gives purple, blue or red colour when treated with neutral FeCl_3 .

Therefore, correct options are (a) and (c).