

Phenol on reaction with Br_2 in non polar aprotic solvent furnishes major product:-

- (a) 2,4,6 tribromophenol (b) orthobromophenol
(c) metabromophenol ✓(d) parabromophenol

sol". In polar aprotic solvent, mono substitution occurs at ortho and para positions as $-OH$ shows $+M$ effect at o and p positions. out of them, p- bromophenol is major product because the δ density at p is relatively higher due to the $-I$ effect of $-OH$ at ortho position -