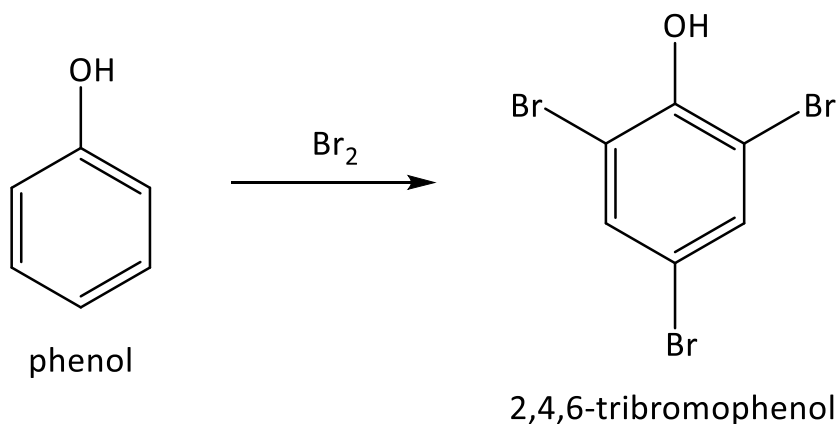


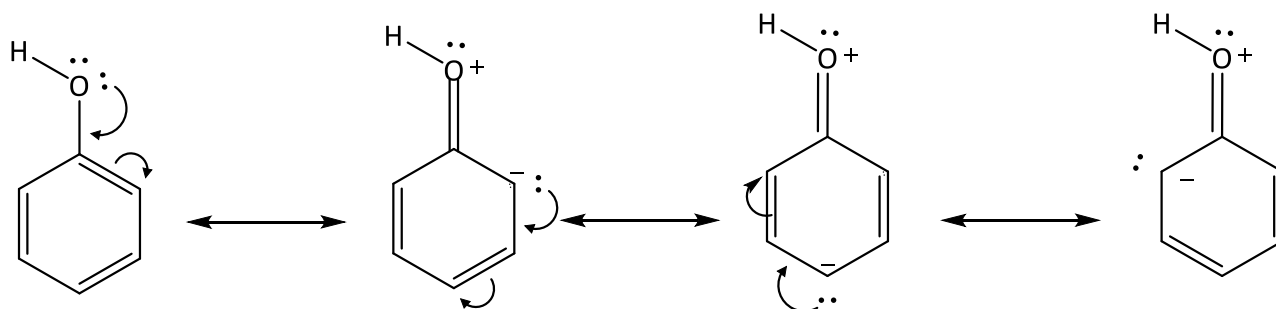
## Answer on Question#78562 – Chemistry – Organic chemistry

**Question:** Determine the results of the electrophilic substitution using phenol bromination as an example. Consider the electronic effects of the substituent.

**Answer:**



2,4,6-tribromophenol is a main product of phenol bromination. The hydroxyl group is a strong activator in electrophilic substitution and directs the process in *ortho*- and *para*- directions because of positive mesomeric effect. A non-bonding electron pair of Oxygen is involved in resonance structures of phenol with *o*- and *p*- sites for electrophilic attack:



Answer provided by AssignmentExpert.com