

Arrange the mechanism steps in order:

Nitration of benzene

Step	Mechanism
Step 1	
	Nitric acid accepts a proton from the stronger acid, sulfuric acid.
Step 2	
	Nitric acid which is protonated can dissociate to form a nitronium ion.
Step 3	
	The nitronium ion is the electrophile in nitration, it reacts with benzene to form a resonance-stabilized arenium ion.
Step 4	
	The arenium ion then loses a proton to a Lewis bases and becomes nitrobenzene.

