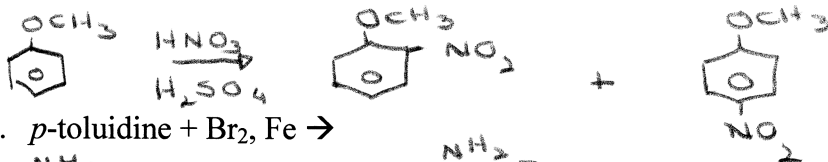


Chapter 15: Supplemental EAS Worksheet

Reactions:

1. anisole (a.k.a. methoxybenzene and methyl phenyl ether) + HNO₃, H₂SO₄ →



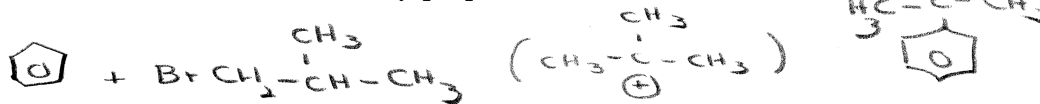
2. *p*-toluidine + Br₂, Fe →



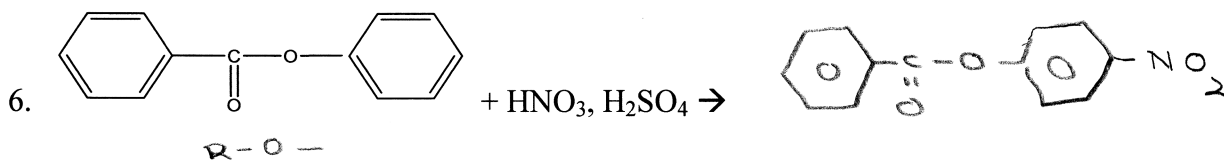
3. *m*-bromonitrobenzene + HNO₃, H₂SO₄ →



4. benzene + 1-bromo-2-methylpropane + AlCl₃

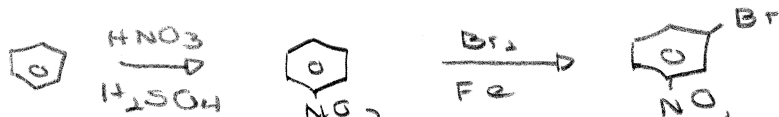


5. acetophenone + H₂SO₄, SO₃ →

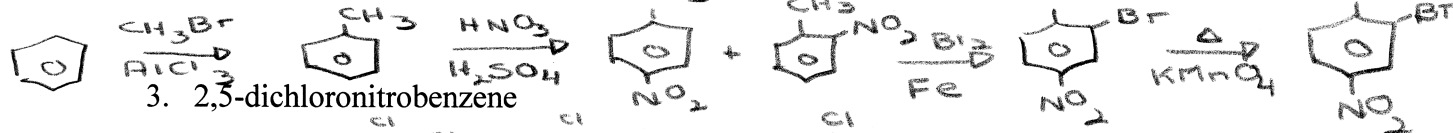


Syntheses. From Benzene:

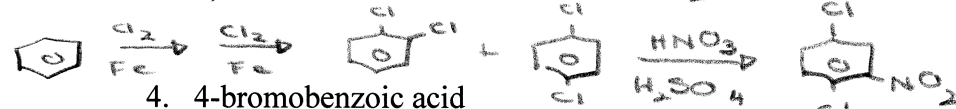
1. *m*-bromonitrobenzene



2. 2-bromo-4-nitrobenzoic acid



3. 2,5-dichloronitrobenzene



4. 4-bromobenzoic acid



Mechanism

Outline all steps in the mechanism for Sulfonation of benzene. Label the RDS.