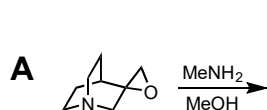
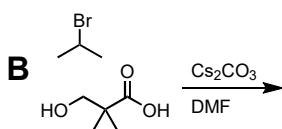


ALIPHATIC SUBSTITUTION REACTIONS

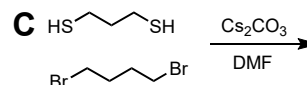
Predict the products of the following reactions.



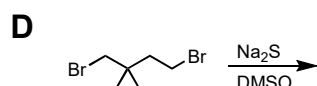
rxn from JMC 2000, 43, 4045



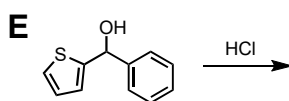
rxn from PCT Int. Appl 2009033061



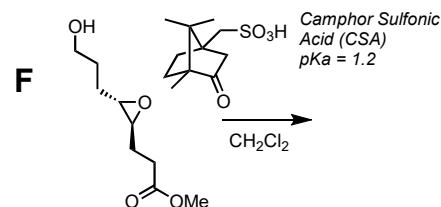
rxn from JOC 1981 46 4481



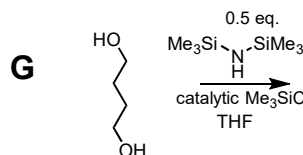
rxn from Chem Pharm Bull 1985, 33, 5048



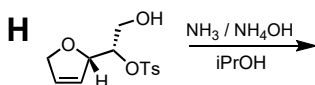
rxn from ACIE 2005 44 5288



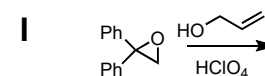
rxn from JACS 1989 111 5330



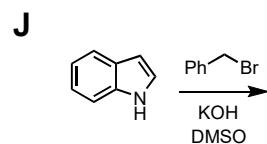
rxn from Z. Naturforsch. B. 1980 35b 767



rxn from PCT Int. Appl 2008007109

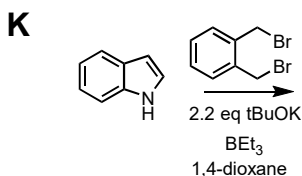


rxn from J. Med. Chem. 2008 51, 6359



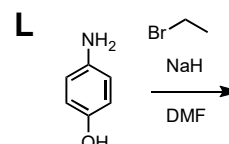
87% yield

rxn from Org Syn 1974, 54, 58



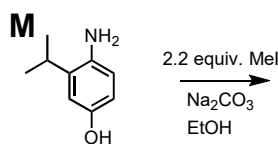
99% yield

rxn from OL 2013, 15, 1950



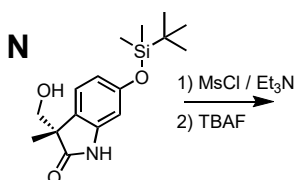
78% yield

rxn from Molecules 2015, 20, 9767

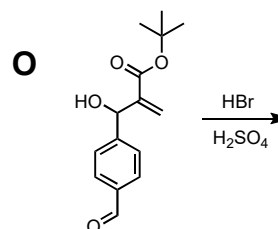


48% yield

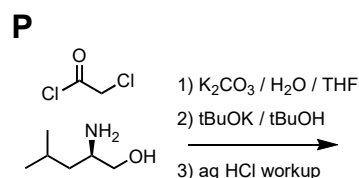
rxn from JOC 1954, 19, 1067



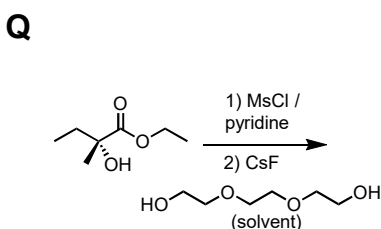
rxn from JACS 2011 133 7704



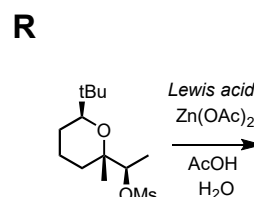
rxn from TL 2009 50 3892



rxn from JMC 2017, 60, 7764



rxn from JOC, 1986, 51, 1003



84% yield

rxn from Heterocycles 2002, 56, 113