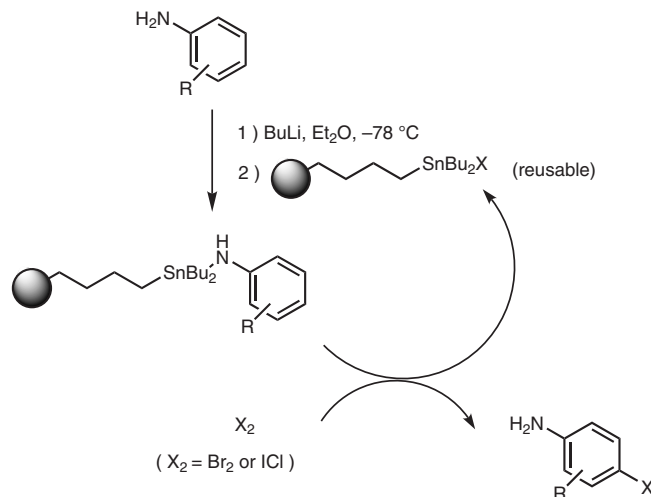


Polymer-Supported Organotin Reagents for Regioselective Halogenation of Aromatic Amines



Significance: Nine *N*-triorganostannylamines were prepared from aromatic amines and polymer-supported tributyltin iodide. They reacted with bromine or iodine monochloride to give *para*-halogenated aromatic amines in 41–76% yields with polymeric tin halides. Excellent *para* regioselectivity was achieved in the case of iodination (*para/ortho* >99/1). The resulting polymer-supported tin halides were reusable for five times.

Comment: The reaction system contains two advantages: (1) halogenation using a triorganotin halide does not generate a hydrohalic acid, and (2) the polymer-supported method decreases the organotin residue in the products.