

Amines Q 0120

34- 063

Hemilabile-Coordinated Copper-Promoted Amination of Aryl Halides with Ammonia in Aqueous Ethylene Glycol under Atmosphere Pressure. — The method is a convenient procedure for the synthesis of primary aryl amines without using an autoclave. Best results are observed for aryl bromides. — (GUO, Z.; GUO, J.; SONG, Y.; WANG, L.; ZOU*, G.; Appl. Organomet. Chem. 23 (2009) 4, 150-153; Dep. Fine Chem., East China Univ. Sci. Technol., Shanghai 200237, Peop. Rep. China; Eng.) — S. Adam

A): $\mathrm{NH_{3}}$, 1 equiv. CuI, 20 mol% Cu (cat.), ethylene glycol/ $\mathrm{H_{2}O}$, 1 atm

Br—VI
$$\xrightarrow{A)}$$
 Br—VII \xrightarrow{VII} VIII $\xrightarrow{69\%}$ (90:10)