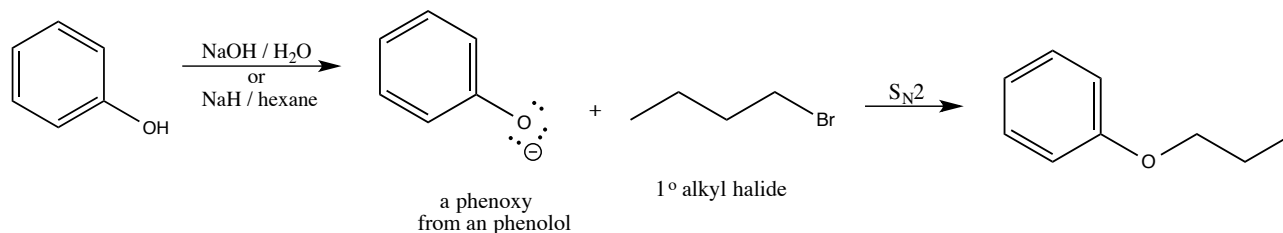


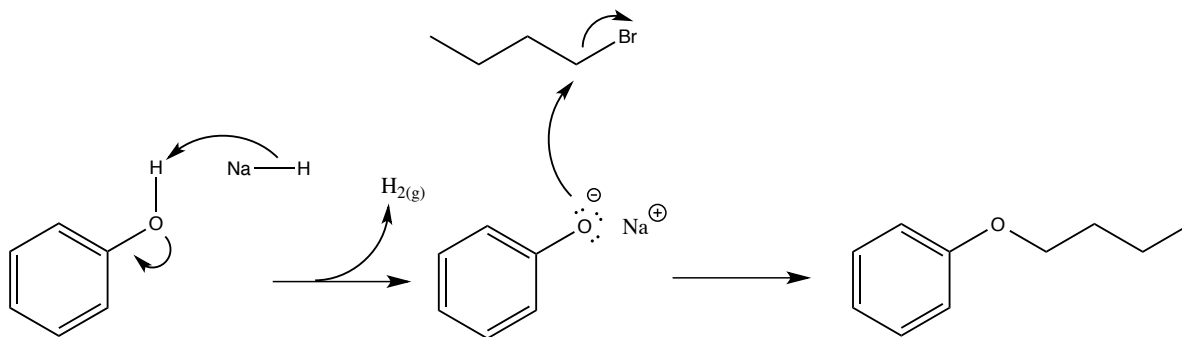
**Chem 345 – Organic Reactions**  
**Chapter 18**

Prepared by José Laboy, MS  
[http: www.chem.wisc.edu/areas /clc](http://www.chem.wisc.edu/areas/clc) (Resource page)

**Williamson Ether Synthesis**



**Mechanism**



To produce the phenoxide (strong base/nucleophile) either, NaH (sodium hydride), NaOH or KOH can be used.

The alkyl halide has to be a 1° alkyl halide. Secondary alkyl halides under these conditions mostly produce elimination products by an E2 mechanism.