**EXERCISE #15a: short trips with alcohols**

Organic Chem II Alfred State College

Starting from alcohols, make:

1)sodium ethoxide (NaOC2H5)



2)t-butyl cyanide (use **alkyl sulfonate** synthesis and NaCN)



1)

2)

3) ethyl tert-butyl ether



4)make isopropyl bromide from isopropanol 4 different ways



***1)***

***2)***

***3)***

***4)***

**EXERCISE #15b: Road Show**

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*fill in the boxes*

***Retro Chemistry….***

+ H2





KHSO4

reflux

+ HCl

CO2, then

H2O

LiAlH4 in ether









**N2H4/OH-**

**or Hg(Zn)/H+**







**Mg/**

**dry ether**

FeBr3/Br2

Nao

neat

C4H9O-Na+ neat