## Answer on Question #66024 - Chemistry - Organic Chemistry

## Task:

Synthesize 3-phenylpropanol from acetylene and benzyl bromide

## **Solution:**

1)

H— 
$$\longrightarrow$$
 + 2LiNH<sub>2</sub>  $\xrightarrow{\text{NH}_3 \text{ (liquid)}}$  H—  $\longrightarrow$  Li + 2NH<sub>3</sub> acetylene

H— 
$$\longrightarrow$$
 H + BuLi  $\xrightarrow{-78^{0} \text{ C}}$  H—  $\longrightarrow$  H + BuH acetylene

2)

benzyl bromide