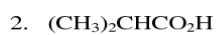


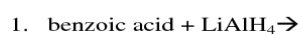
Chapter 19: Carboxylic Acids Worksheet

NOMENCLATURE:

Please name the following structures:



REACTIONS:



SYNTHESIS

1. valeric acid from 1-butanol

2. valeric acid from 1-pentanol

3. phenylacetic acid from toluene

4. benzoic acid from toluene

ACIDITY

Number the following in decreasing order of acidity, letting #1 equal the most acidic.

benzoic acid

p-bromobenzoic acid

p-hydroxybenzoic acid
