

Organic Chemistry for Health Sciences
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Homework-3

1. Draw the following compounds and label the Chiral carbon(s).

a. R-2-chloropentane

b. S-3-chloro-2-methylpentane

c. R-2-bromo-1-chlorobutane

2 Give the structures of the products expected from the reaction of n-butyl chloride with:

a. NaOH(aq)

b. NaNH₂

c. NaOCH₃

3. Draw out the structural formula and classify the following alcohols as 1^o, 2^o or 3^o.

a. 1-Propanol

b. 1-Bromo-2-propanol

c. 2-methy-2-prpanol

d. 2,2-Dimethyl-1-propanol

4. Give the structures of the products expected from the reaction of 2-butanol with:

a. Jone's reagent

b. HI

c. HBr then with Mg

5. How would you carry out the following conversion?

