Assessment

Organic Chemistry-3

The —COOH group is called a(n) _____.

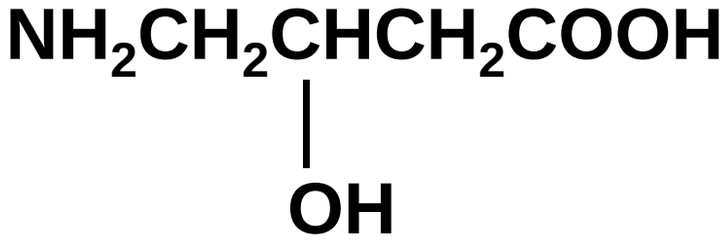
A) carboxyl group

B) carbonyl group

C) aldehyde group

D) hydroxyl group

What functional groups are present in the following compound?



A. Amino, alcohol, ketone

B. Amine, alcohol, carbonyl

C. Amine, alcohol, carboxylic acid

D. Amine, phenol, carboxylic acid

E. Amide, alcohol, carboxylate

Which listed type of compound does NOT contain a carbonyl group?

A. Carboxylic acid

B. Ether

C. Ester

D. Ketone

E. Aldehyde

Which of the following types of compounds contains the hydroxyl functional group?

A. **Alcohol**

B. **Ether**

C. **Ester**

D. **Ketone**

E. **Aldehyde**

Which functional group below contains a carbonyl (C=O) group?

a. alcohol

b. ether

c. carboxylic acid

d. amine

Which functional group below does not contain any oxygen atoms?

a. amine

b. amide

c. ester

d. ether

Which set of functional groups contains **only** ones that contain nitrogen?

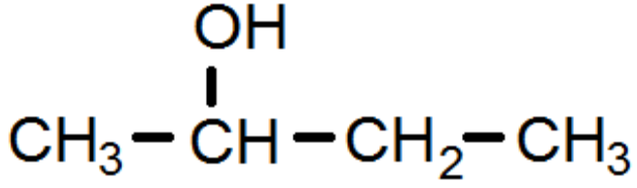
a. **amines, amides, and carboxylic acids**

b. **alcohols and ethers**

c. **amines and amides**

d. **alkenes, alkynes, and aromatics**

The following alcohol is classified as _____.



A) primary

B) secondary

C) tertiary

D) quaternary

The IUPAC name for the following compound is _____.

$$CH_3 — CH_2 — CH_2 — CH_2 — CH_2 — CH_2 — OH$$

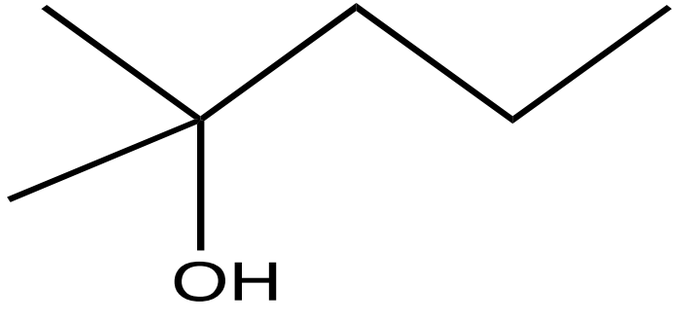
A) 1-methylpentanol

B) hexyl alcohol

C) phenol

D) 1-hexanol

What is the classification of the following alcohol?



A. primary

B. secondary

C. tertiary

D. quaternary

What organic family does $CH_3—CH_2—O—CH_2—CH_3$ belong to?

A. alcohol

B. carboxylic acid

C. aldehyde

D. ether

Which of the following compounds is an aldehyde?

A. Propanol

B. Propanone

C. Methyl propanoate

D. Propanal

E. Toluene

When an aldehyde is oxidized, the product is a(n) ___.

a) **alcohol**

b) **aldehyde**

c) **ketone**

d) **carboxylic acid**

A ketone must have at least 3 carbons.

A. True

B. False