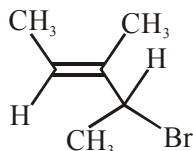
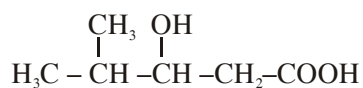


NOMENCLATURE

1. What is the IUPAC name of the following compound ?

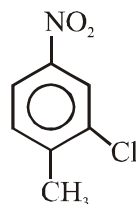


- (1) 3-Bromo-1, 2-dimethylbut-1-ene]
 (2) 4-Bromo-3-methylpent-2-ene
 (3) 2-Bromo-3-methylpent-3-ene
 (4) 3-Bromo-3-methyl-1, 2-dimethylprop-1-ene
2. The IUPAC name of the following compound is :



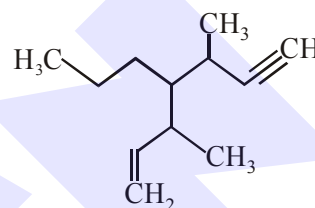
- (1) 2-Methyl-3Hydroxypentan-5-oic acid
 (2) 4,4-Dimethyl-3-hydroxy butanoic acid
 (3) 3-Hydroxy-4 -methylpentanoic acid
 (4) 4-Methyl-3-hydroxypentanoic acid

3. The correct IUPAC name of the following compound is :



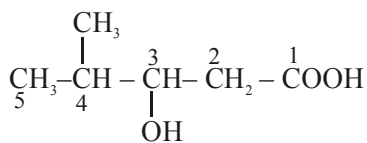
- (1) 5-chloro-4-methyl-1-nitrobenzene
 (2) 2-methyl-5-nitro-1-chlorobenzene
 (3) 3-chloro-4-methyl-1-nitrobenzene
 (4) 2-chloro-1-methyl-4-nitrobenzene

4. The IUPAC name of the following compound is :

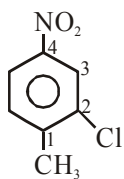


- (1) 3,5-dimethyl-4-propylhept-6-en-1-yne
 (2) 3-methyl-4-(3-methylprop-1-enyl)-1-heptyne
 (3) 3-methyl-4-(1-methylprop-2-ynyl)-1-heptene
 (4) 3,5-dimethyl-4-propylhept-1-en-6-yne

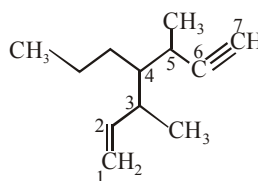
SOLUTION

1. **Ans.(2)**2. **Ans. (3)****Sol.**

3-Hydroxy-4-methylpentanoic acid
-COOH principal functional group

3. **Ans. (4)****Sol.**

2-chloro-1-methyl-4-nitrobenzene

4. **Ans. (4)****Sol.**

3,5-Dimethyl-4-propylhept-1-en-6-yne

Longest carbon chain, including multiple bonds, and numbering starts from double bond.