

1. Write the structures for the following compounds.

2-octyne

Ethylpropylacetylene

Phenylethyne

Cyclohexylacetylene

5-methyl-3-octyne

1,4-heptadiyne

Trans-3,5-dibromocyclodecyne

5,5-dibromo-4-phenylcyclooct-1-yne

(E)-6-ethyloct-2-en-4-yne

(S)-3-methyl-1-penten-4-yne

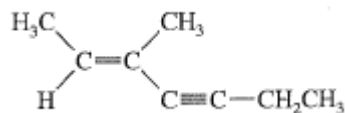
2. Give the IUPAC names of the following compounds.

$\text{CH}_3\text{-C}\equiv\text{CCH}_2\text{CH}_3$

$\text{Ph-C}\equiv\text{C-H}$

$\text{CH}_3\text{CBr}_2\text{C}\equiv\text{C-CH}_3$

$(\text{CH}_3)_3\text{C-C}\equiv\text{C-C}(\text{CH}_3)\text{CH}_2\text{CH}_3$



$\text{CH}_3\text{-C}\equiv\text{C-CHPhCH}_3$

