

the physical properties of isomers of C4 H10

Answer:

There are two isomers: normal butane (n-butane) $\text{CH}_3(\text{CH}_2)_2\text{CH}_3$ and 2-methylpropane (isobutane) $(\text{CH}_3)_2\text{CH}$. These are colorless gases which are soluble in organic solvents and insoluble in water. 2-methylpropane forms crystalline hydrates. The melting and boiling points are different. Butane has a melting point of 135.4K and 2-methylpropane has a melting point of 114K. The boiling point of butane is 272.6K and isobutane is 261K. It has to do with their structures.