Question #47822 – Chemistry – Organic Chemistry

Question:

How many isomers are possible for C_5H_{12} ?

Answer:

There are three possible structural isomers for pentane C_5H_{12} :

$$\begin{array}{c} CH_{3}\\ CH_{3}-CH_{2}-CH_{2}-CH_{2}-CH_{3}\\ n-pentane \\ CH_{3} \end{array} \qquad \begin{array}{c} CH_{3}\\ CH_{3}-CH-CH_{2}-CH_{3}\\ iso-pentane \\ CH_{3} \end{array}$$

CH₃-CH-CH₃ CH₃ CH₃ neo-pentane