An alkyl carbocation is a carbocation that has the structural formula of an alkyl group.

eg:

```
\begin{align*}
\text{methyl carbocation:} & \quad \begin{array}{c}
\text{H} \\
\text{H} \\
\text{H}
\end{array} \\
\text{CH}_{3} \\
\text{H}
\end{align*}
```

```
\begin{align*}
\text{tert-butyl carbocation:} & \quad \begin{array}{c}
\text{H} \\
\text{H} \\
\text{CH}_{3}
\end{array} \\
\text{CH}_{3} \\
\text{CH}_{3}
\end{align*}
```

Alkyl carbocations are the most common carbocations; the term carbocation is casually used to mean alkyl carbocation.

**Contributors**

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