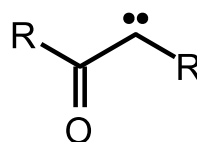


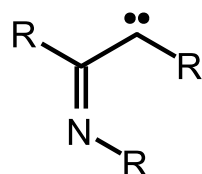
carbenes

The electrically neutral species $\text{H}_2\text{C}:$ and its derivatives, in which the carbon is covalently bonded to two univalent groups of any kind or a divalent group and bears two nonbonding electrons, which may be spin-paired (singlet state) or spin-non-paired (triplet state). In systematic name formation, carbene is the name of the parent hydride $:\text{CH}_2$ hence, the name dichlorocarbene for $:\text{CCl}_2$. However, names for acyclic and cyclic hydrocarbons containing one or more divalent carbon atoms are derived from the name of the corresponding all- λ^4 -hydrocarbon using the suffix -ylidene. E.g. prop-2-en-1-ylidene, $\text{H}_2\text{C}=\text{CHCH}:$ ethenylidene, $\text{H}_2\text{C}=\text{C}:$; cyclohexylidene,



Subclasses of carbenes include acyl carbenes

, imidoyl carbenes,



and vinyl carbenes.

Source:

PAC, 1995, 67, 1307 (*Glossary of class names of organic compounds and reactivity intermediates based on structure (IUPAC Recommendations 1995)*) on page 1324

See also:

PAC, 1994, 66, 1077 (*Glossary of terms used in physical organic chemistry (IUPAC Recommendations 1994)*) on page 1092