A hemiketal is a compound that has the following general structural formula.

\[ \text{R}^1 \text{C} \text{OR}^3 \]
\[ \text{R}^2 \text{OH} \]

\[ \text{R}^1 = \text{alkyl, aryl}, \]
\[ \text{R}^2 = \text{alkyl, aryl}, \]
\[ \text{R}^3 = \text{alkyl} \]

eg:

The functional group 1 in an organic molecule is called the hemiketal group; the carbon atom bearing the two oxygen atoms is the hemiketal carbon.

The functional group 1 in an organic molecule is called the hemiketal group; the carbon atom bearing the two oxygen atoms is the hemiketal carbon.

see also cyclic hemiketal, ketal, hemiacetal

Contributors

• Gamini Gunawardena from the OChemPal site (Utah Valley University)