

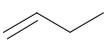
Answer on Question #43828 - Chemistry - Organic Chemistry

Question:

How are alkenes similar to the cycloalkanes?

Answer:

Alkenes and cycloalkanes have the same general chemical formula C_nH_{2n} , i.e. they have the same elemental composition. For example:

Molecular formula	Alkene	Cycloalkane
C_3H_6	 prop-1-ene	 cyclopropane
C_4H_8	 but-1-ene	 cyclobutane
C_5H_{10}	 pent-1-ene	 cyclopentane

and so on.

Since alkene and cycloalkane with the same number of carbon atoms have the same molecular formula they have the same molecular weight.