

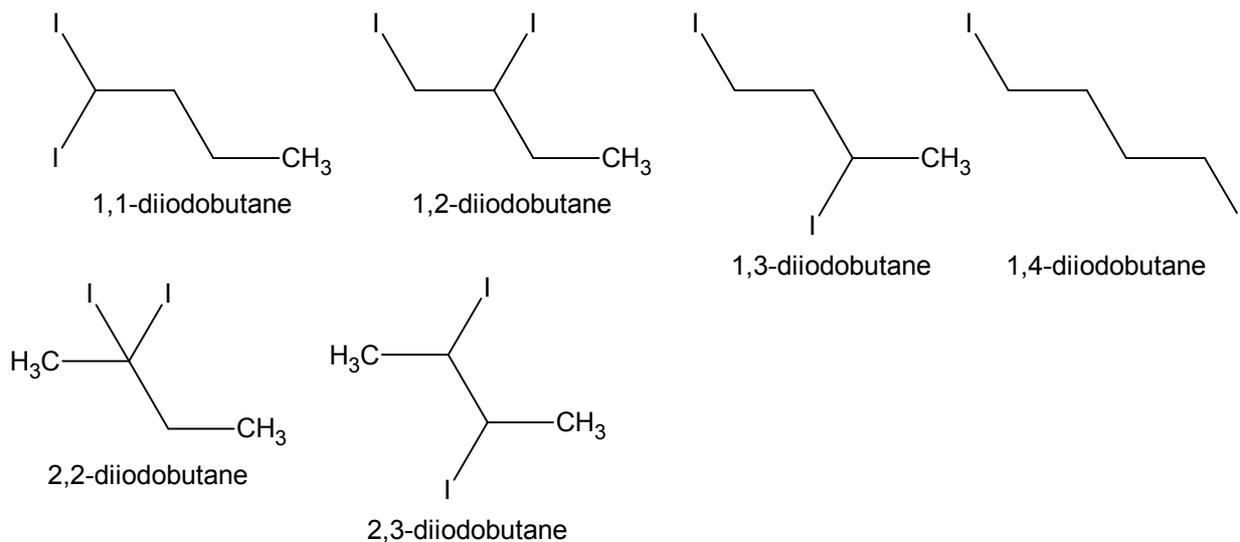
Question:

What are the isomers of $C_4H_8I_2$ and what it's Structural Formulas?

Answer:

$C_4H_8I_2$ is a representative of alkanhalogenides – saturated compounds, in which some atoms of hydrogen are substituted by halogen atoms. The general formula for this class is $C_nH_{2n+2-m}Gal_m$. In our case $n = 4$, $m = 2$, $Gal = I$, hence we have iodine substituted butanes.

The following isomers are possible:



Isomers have different structure due to the different arrangement of iodine radicals.