## Answer on Question #42593 - Chemistry - Organic Chemistry

## Question:

Draw a clear formulae to show a pair of geometric isomers and a pair of structural isomers of the alkene of molecular formula  $C_4H_8$ . Give correct systematic name of each structure.

## Answer:

Pair of geometric isomers of the alkene C<sub>4</sub>H<sub>8</sub> and their systematic names:

$$H$$
  $H$   $H$   $CH_3$   $H_3C$   $H_3C$   $H$   $(2Z)$ -but-2-ene  $(2E)$ -but-2-ene

Pair of structural isomers of the alkene C<sub>4</sub>H<sub>8</sub> and their systematic names: