8/30/13

More homework has been posted.
$S_{n2} - 16 - O_2$

Reactions of Alkenes

\[ 
\text{Choice 1:} \quad \text{CHOICE} \quad \text{CHOICE} \\
\text{H}^+ + \text{HBr} \rightarrow \text{CHOICE} \\
\text{CHOICE} 1: \quad \text{CHOICE} 2 \\
\text{Br}^- + \text{CH}_3 \quad \text{Br}^- \\
\text{CHOICE} 2: \quad \text{CHOICE} 2 \\
\text{H}_3\text{C} - \text{CHOICE} - \text{CH}_3 \\
\text{CHOICE} 1: \quad \text{CHOICE} 2 \\
\text{Br}^- \\
\text{CHOICE} 2: \quad \text{CHOICE} 2 \\
\text{CHOICE} 1: \quad \text{CHOICE} 2 \\
\text{Br}^- 
\]
\[
\text{H}^+ \quad \text{Br}^- \quad \xrightarrow{\text{HBr, H}_2\text{O}} \quad \xrightarrow{\text{Choice}} \quad \xrightarrow{\text{preferred}} \quad \text{Not Good!}
\]
Rxn of Dienes

\[
\begin{align*}
\text{Br}_2 & \rightarrow \text{Br}^+ + \text{Br}^- \\
\text{Br}_2 & \rightarrow \text{Br} \\
\text{HBr} & \rightarrow \text{HBr} (1 \text{ mole}) \\
\text{H}_2\text{O} & \rightarrow \text{H}_2\text{O} \\
\text{HBr} & \rightarrow \text{HBr} (1 \text{ mole}) \\
\text{Br}_2 & \rightarrow \text{Br}_2 \\
\text{HBr} & \rightarrow \text{HBr} (1 \text{ mole})
\end{align*}
\]
Question:

The structure of a bicyclic compound, typical of a Diels-Alder reaction is shown here in a top view. Which of the following structures represents a side view of the product, and is the same compound (i.e., not an enantiomer of the compound)?


Please select the correct choice, then click "Submit".

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The structure of a bicyclic compound, typical of a Diels-Alder reaction is shown here in a top view. Which of the following structures represents a side view of the product, and is the same compound (i.e., not an enantiomer of the compound)?


Please select the correct choice, then click "Submit".

Question:

Which of the following compounds is the most stable thermodynamically?