Hydrogenation of propene catalyzed by Pt(1) in shown below.

The reaction scheme includes the following steps:

1. Addition of hydrogen to the double bond.
2. Hydrogenation of the resulting alkene.
3. Formation of the final product.

The overall reaction can be described by the following equation:

\[ \text{Hydrogenation of propene} \rightarrow \text{Product} \]

Experimental results show good selectivity for the desired product with the use of Pt(1) catalysts. In addition, the reaction proceeds efficiently under mild conditions.

References:


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