

1. **Z-to-E isomerization processes in reactions catalyzed by cyclometalated ruthenium alkylidenes**

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The **Z**-content of products generated in **reactions catalyzed** by adamantyl-activated **Z**-selective metathesis **catalysts** is at first very high but degrades at higher conversions. The degree to which this undesirable **process** occurs is dependent on both the substrate and **catalyst** structure. Studies of **Z-to-E isomerization processes** and **methods** of preventing them are explored. Furthermore, an interesting Fischer carbene species was found to affect these **isomerization processes**.