

Diels Alder Reaction

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{youtube}n8KITFQsKaY{/youtube}

This video discusses the diels alder reaction mechanism and provides a ton of examples and practice problems. It shows how to predict the product of a diels alder reaction and how to find the diene and dienophile that would react to make the diels-alder product. The diels alder reaction is a 4+2 cycloaddition reaction that has a concerted reaction mechanism. This video also shows you how to rank dienes and dienophiles in order of increasing reactivity based on the presence of electron donating and electron withdrawing groups in addition to considering the s-cis and s-trans conformations of the diene. Dienes and dienophiles used in this video includes cyclopentadiene, 1,3-cyclohexadiene, maleic anhydride, and 1,3-butadiene. The stereochemistry of the products are also discussed such as the cis and trans diastereomer isomers that can be formed in addition to enantiomers and meso compounds. This video also helps you to see when you get 1 or 2 different constitutional isomers.

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