

Effect of Elevated External Pressure on the Rate of the Diels-Alder Reaction of 9-Methylantracene with Acrylonitrile, Catalyzed by Gallium Chloride

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Abstract

External pressure was found to similarly affect the rate of a gallium chloride-catalyzed Diels-Alder reaction between 9-methylantracene with acrylonitrile and a noncatalyzed reaction of 9,10-dimethyl-anthracene with acrylonitrile. The observation of equal activation volumes is consistent with the assumption that elevated pressure very weakly affects the bond energy in the n,v complex of acrylonitrile with gallium chloride.

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