

1-Methylcycloprop-2-ene-1-carbonitrile in Tandem Alder–Ene and Diels–Alder Reactions

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Received March 31, 2008

Abstract—The reactions of 1-methylcycloprop-2-ene-1-carbonitrile with cyclohexa-1,4-diene and alloocimene gave the corresponding 2:1 addition products as a result of consecutive (conjugate) Alder–ene and Diels–Alder reactions. 1-Methylcycloprop-2-ene-1-carbonitrile acts initially as enophile, and in the second step, as dienophile. The structure of the adducts was determined by X-ray analysis.

DOI: 10.1134/S1070428010010033