

ÖZET

YEDİ ÜYELİ GERİLİMLİ SİMETRİK BENZOANULE HALKALI ALLEN SENTEZİ VE YAKALANMASI

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Bu çalışmada; yedi üyeli gerilimli simetrik benzoanule halkalı allen sentezi ve yakalanması üzerinde çalışıldı. Yedi üyeli gerilimli ve simetrik benzoanule halkalı allen sentezi için naftalinden çıkılarak 1,4-dihidronaftalin Birch reaksiyonuyla sentezlendi. Bu çıkış bileşiğine bromoflorokarben katılarak 7,7-bromofloro-3,4-benzosiklo [4.1.0]-3-hepten sentezlendi. Elde edilen bu bileşik azot atmosferinde metililyum ile muamele edilerek allen dimer ürünleri izole edilerek reaktivitesi ve reaksiyonları incelendi.

ABSTRACT

SYNTHESIS AND TRAPPING SEVEN MEMBERED STRAINED SYMMETRICAL BENZOANULE ALLENE

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In this work; synthesis and trapping seven membered strained symmetrical benzoanule allene was worked on. At first step, 1,4-dihydronaphthalene was synthesized from naphthalene by the way of birch reaction. And then 7,7-bromofluoro-3,4-benzocyclo [4.1.0]-3-heptene was synthesized by adding fluorobromocarbene into 1,4-dihydronaphthalene. As a result, 7,7-bromofluoro-3,4-benzocyclo [4.1.0]-3-heptene was synthesized by methylithium in the atmosphere of nitrogen. After separation, dimer product was obtained by coloum chromatography. Structure was elucidated by spectroscopic techniques (¹H-NMR, ¹³C-NMR, Mass, FT-IR).