

Turkish Journal of Chemistry

Turkish Journal

of

Chemistry

 [Keywords](#)
 [Authors](#)



chem@tubitak.gov.tr

[Scientific Journals Home](#)
[Page](#)

A New Approach to the Ring Opening Reactions of 2,7,7-Trimethyl-3,3-dibromotricyclo[4.1.1.0^{2,4}]octane

Zekir ŞENOL¹, Ömer ZAIM¹, Metin BALCI²

¹Trakya University, Department of Chemistry, Faculty of Science and Letters,
22030 Edirne-TURKEY

e-mail: omerzaim@trakya.edu.tr

²Middle East Technical University, Department of Chemistry
06531 Ankara-TURKEY

Abstract: The reaction of α -pinene and dibromocarbene produced a fairly unstable product, 2,7,7-trimethyl-3,3-dibromotricyclo[4.1.1.0^{2,4}]octane, from which 3-bromo-7,7-dimethyl-2-methylenebicyclo [4,1,1]oct-3-ene and 3-bromo-2,7,7-trimethylbicyclo [4,1,1]octa-2,4-diene were obtained in chloroform at room temperature and in various other media and conditions. Two new compounds, 3-bromo-2,7,7-trimethylbicyclo [4.1.1]oct-3-en-2-ol and 2-(4-bromo-5-methylcyclohepta-3,5-dien-1-yl) propan-2-ol, were observed in aqueous acetone in addition to the previous two. The stability and formation mechanism of the formed products are discussed

Turk. J. Chem., **29**, (2005), 531-538.

Full text: [pdf](#)

Other articles published in the same issue: [Turk. J. Chem., vol.29, iss.5.](#)