Complete Ozonolysis of 3-Methyl-4-(prop-1-en-1-yl)cyclohexene

O. S. Kukovinets[a, b], T. I. Zvereva[b], A. G. Kukovinets[b], M. I. Abdullin[b], and F. Z. Galin[a, b]

[a] *Institute of Organic Chemistry, Ufa Research Center, Russian Academy of Sciences, pr. Oktyabrya 71, Ufa, 450054 Bashkortostan, Russia*

[b] *Bashkir State University, ul. Mingazheva 100, Ufa, 450014 Bashkortostan, Russia*
e-mail: PMSV@bsu.bashedu.ru

Received September 1, 2005

Abstract—Complete ozonolysis of the thermal dimer of piperylene, 3-methyl-4-(prop-1-en-1-yl)cyclohexene, followed by reduction of primary peroxy compounds with dimethyl sulfide, gave 2-methyl-3-formyl-1,6-hexanedial as the major product and five- and six-membered hydroxy lactones which were formed via intramolecular cyclization of peroxides with participation of oxygen-containing functional groups.

DOI: 10.1134/S1070428006100071