

halogenation, dehalogenation

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Anomalous Iodination and Iodochlorination of 3,4-Dimethyl-cis-bicyclo(4.3.0)nona-3,7-diene.

— Whereas addition of I₂ to the title compound (I) in CCl₄ gives unexpected tricyclic monoiodides as a mixture of epimers (cf. (II), (III)), iodination of (I) in pyridine results in a regiospecific addition of iodine and pyridine to the cyclopentene double bond (cf. (VI)). Iodochlorination of (I) in CHCl₃ yields tricyclic monoiodides as well as addition products of chlorine and iodine to the cyclopentene double bond (cf. (IV)). Mechanistic suggestions for these unusual halogenation reactions are given. — (ANDREEV, V. A.; PEKHK, T. I.; ANFILOGOVA, S. N.; BELIKOVA, N. A.; BOBYLEVA, A. A.; Zh. Org. Khim. 27 (1991) 7, 1450-1458; Mosk. gos. univ. im. Lomonosova, USSR; RU)

