

Action of alcohols on bicyclic terpene oxides communication 3. Acetals of 3- camphenilancarboxaldehyde

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Abstract

1. A study has been made of the reaction of camphene oxide with primary alcohols (ethyl, butyl, isobutyl and octyl) and a secondary alcohol (isopropyl) in presence of sulfuric acid. It has been shown that the reaction of camphene oxide with primary alcohol is accompanied by isomerization of the epoxide and formation, as the sole product, of the corresponding acetals of 3-camphenilancarboxaldehyde. 2. It has been shown that in the case of secondary alcohols, exemplified by isopropyl alcohol, reaction is again accompanied by isomerization, but it stops at the 3-camphenilancarboxaldehyde stage, and no acetal formation occurs. 3. By the reaction of 3-camphenilancarboxaldehyde with glycols (ethylene glycol, 1,2-propanediol, 1,3-propanediol, and 1,3-butanediol) in presence of phosphoric acid, the corresponding cyclic acetals of 3-camphenilancarboxaldehyde have been prepared. © 1954 Consultants Bureau, Inc.

<http://dx.doi.org/10.1007/BF01167813>
