

Conformation of 2,3-caranediols and 3-hydroxy-2-caranones

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Abstract

1. The hydroxyl groups in 2 β ,3 α -caranediol occupy diaxial positions, and those in 2 α ,3 β -caranediol occupy diequatorial positions. 2. 2 α ,3 α -Caranediol and 2 β ,3 β -caranediol exist predominantly in forms with an axial tertiary OH group and a quasiequatorial OH group. 3. The six-membered ring in 3 β - and 3 α -hydroxy-2-caranone has been ascribed a conformation intermediate between the half-chair and the boat conformation with a quasiequatorial OH group in the former species and a predominantly quasial axial OH group in the latter species. © 1980 Plenum Publishing Corporation.

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