

论文

雷酚内酯晶体结构的再研究

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摘要:

关键词: 二萜内酯 雷酚内酯 晶体结构

THE CRYSTAL STRUCTURE OF TRIPTOPHENOLID REVISITED

YZ Chen;XY Huang;QJ Wu;FX Deng

Abstract:

Triptophenolide, C₂₀H₂₄O₃, has been assigned two isomeric structures. DF Yu et al reported the X-ray analytical structure II in 1990⁽²⁾. In 1982, however, FX Deng et al had already reported the spectrometric assignment of structure I⁽¹⁾. Now, we report again the single crystal analysis of triptophenolide (I). The crystal belongs to space group P_{2₁2₁2₁} of orthorhombic system, with a=7.270(6), b=12.509(8), c=36.20(1)Å, Z=8. The structure was solved by direct method and refined by the full-matrix least-square method to a final R factor 0.055, based on 2322 intensities with I≥3σ(I). It is highly probable that the result of DF Yu was in error with only 1292 available intensities.

Keywords: Triptophenolide Crystal structure Diterpenoid--lactone

收稿日期 1991-10-21 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

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