

1,3,6-Trihydroxy-7-methoxy-2,8-bis(3-methylbut-2-enyl)-9H-xanthen-9-one

ABSTRACT

The title compound (trivial name α -mangostin), C₂₄H₂₆O₆, isolated from *Cratoxylum glaucum*, is characterized by a xanثone skeleton of three fused six-membered rings and two 3-methylbut-2-enyl side chains. The three rings in the structure are nearly coplanar, with an r.m.s. deviation for the tricyclic ring system of 0.0014 Å. The two 3-methylbut-2-enyl side chains are in (+)-synclinal and (-)-anticlinal conformations. Intramolecular O—H[cdots, three dots, centered]O and C—H[cdots, three dots, centered]O interactions occur. The crystal structure is stabilized by intermolecular O—H[cdots, three dots, centered]O, C—H[cdots, three dots, centered]O and C—H[cdots, three dots, centered] π interactions.

Keyword: single-crystal x-ray study