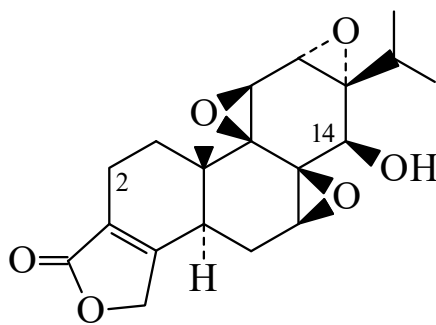




>>Entry Name: Triptolide



CAS Registry Number: 38748-32-2

Related CAS Registry Numbers(s): 73414-46-7 73543-06-3

Molecular Formula: C₂₀H₂₄O₆

Molecular Weight: 360.406

Accurate Mass: 360.15729

Percentage Composition: C 66.65%; H 6.71%; O 26.64%

Biological Source: Constit. of *Tripterygium wilfordii*

Biological Use/Importance: Antineoplastic agent, effective against leukaemia and lung carcinoma

Physical Description: Cryst.

Melting Point: Mp 226-227°

Optical Rotation: $[\alpha]_D^{25} -154$ (c, 0.369 in CH₂Cl₂)

Calculated Log P Data: Log P -0.6 (uncertain value) (calc)

UV: [neutral] $\lambda_{\max}$ 218 (ε 14000) (MeOH) (Berdy)

Hazard & Toxicity: LD₅₀ (mus, ipr) 0.9 mg/kg

>>Derivative: 14-Ketone

Synonym(s): Triptonide

CAS Registry Number: 38647-11-9

Molecular Formula: C₂₀H₂₂O₆

Molecular Weight: 358.39

Accurate Mass: 358.14164

Percentage Composition: C 67.03%; H 6.19%; O 26.79%

Biological Source: Constit. of *Tripterygium wilfordii*

Physical Description: Cryst.

Melting Point: Mp 251-252°

Optical Rotation: $[\alpha]_D^{25} -175$ (c, 0.148 in CH₂Cl₂)

Calculated Log P Data: Log P 0.85 (uncertain value) (calc)

UV: [neutral] $\lambda_{\max}$ 218 (ε 14000) (MeOH) (Derep) [neutral] $\lambda_{\max}$ 218 (ε 12000) (EtOH) (Berdy)

>>Derivative: 2β-Hydroxy

Synonym(s): Triptiolide

CAS Registry Number: 38647-10-8

Molecular Formula: C₂₀H₂₄O₇

Molecular Weight: 376.405

Accurate Mass: 376.152205

Percentage Composition: C 63.82%; H 6.43%; O 29.75%

Biological Source: Isol. from *Tripterygium wilfordii*

Biological Use/Importance: Shows antileukaemic activity

Melting Point: Mp 210-211°

Optical Rotation: $[\alpha]_D^{25} -138$ (c, 0.139 in CHCl₃)

Calculated Log P Data: Log P -1.9 (uncertain value) (calc)

UV: [neutral] $\lambda_{\max}$ 218 (ε 14000) (MeOH) (Derep) [neutral] $\lambda_{\max}$ 217 (ε 12000) (MeOH) (Berdy)