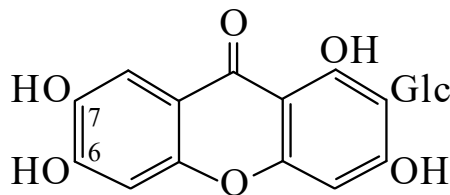




>>Entry Name: Mangiferin

Synonym(s): 2-β-D-Glucopyranosyl-1,3,6,7-tetrahydroxy-9H-xanthen-9-one, 9Cl. Euxanthogen. Chinomine. Alpizarin. Hedysaride. Mannipherin. Chedisaride



CAS Registry Number: 4773-96-0

Related CAS Registry Numbers(s): 74484-89-2

Molecular Formula: C₁₉H₁₈O₁₁

Molecular Weight: 422.345

Accurate Mass: 422.084915

Percentage Composition: C 54.03%; H 4.30%; O 41.67%

Biological Source: Constit. of *Mangifera indica* leaves, heartwood and stem bark and *Iris* spp., also from *Salacia prenoides*, *Aphloia madagascariensis*, *Athyrium mesosorum*,

Physical Description: Pale yellow needles (EtOH aq.)

Melting Point: Mp 278-280° (270-272° dec.)

Optical Rotation: [α]_D³²+32 (EtOH aq.)

UV: [neutral] λ_{max} 240 (); 241 (ε 18200); 257 (ε 19500); 315 (ε 9600); 316 (); 364 (); 365 (ε 8500) (MeOH) (Berdy) [base] λ_{max} 247 (); 270 (); 271 (); 389 (); 390 () (MeOH-NAOH) (Berdy)

Sigma: M3547

>>Derivative: 6-O-β-D-Glucopyranoside

CAS Registry Number: 64809-68-3

Molecular Formula: C₂₅H₂₈O₁₆

Molecular Weight: 584.487

Accurate Mass: 584.13774

Percentage Composition: C 51.37%; H 4.83%; O 43.80%

Biological Source: Constit. of *Gentiana asclepiadea* leaves

Melting Point: Mp 209-210 dec.°

>>Derivative: 7-O-β-D-Glucopyranoside

Synonym(s): Neomangiferin

CAS Registry Number: 64809-67-2

Molecular Formula: C₂₅H₂₈O₁₆

Molecular Weight: 584.487

Accurate Mass: 584.13774

Percentage Composition: C 51.37%; H 4.83%; O 43.80%

Biological Source: Constit. of *Gentiana asclepiadea* leaves

Melting Point: Mp 220-221°

>>Derivative: O-β-D-Glucopyranoside

Synonym(s): Glucomangiferin. 2-(O-Glucosylglucosyl)-1,3,6,7-tetrahydroxyxanthone

CAS Registry Number: 49812-72-8

Molecular Formula: C₂₅H₂₈O₁₆

Molecular Weight: 584.487

Accurate Mass: 584.13774

Percentage Composition: C 51.37%; H 4.83%; O 43.80%

Biological Source: Isol. from *Hedysarum flavescens*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 198-202°

Other Data: Full struct. not known

>>Derivative: O-Glucosyl

Synonym(s): Mangiferin O-glucoside