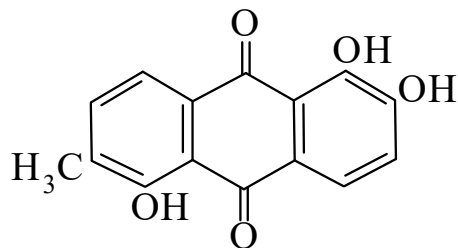




>>Entry Name: 1,2,5-Trihydroxy-6-methylanthraquinone, 8Cl

Synonym(s): 1,2,5-Trihydroxy-6-methyl-9,10-anthracenedione, 9Cl. **Morindone**. C.I. 75430



CAS Registry Number: 478-29-5

Molecular Formula: C₁₅H₁₀O₅

Molecular Weight: 270.241

Accurate Mass: 270.052825

Percentage Composition: C 66.67%; H 3.73%; O 29.60%

Biological Source: Isol. from *Hymenodictyon excelsum* (roots), *Coprosma australis* (bark) and *Morinda angustifolia* (heartwood and leaves). Also *Morinda persicaefolia*, *Morinda umbellata* and *Morinda tinctoria*

Physical Description: Orange needles

Melting Point: Mp 284°

UV: [neutral] λ_{max} 232 (ε 31600); 259 (ε 33890); 292 (ε 14450); 301 (ε 15130); 448 (ε 11750) (MeOH) (Berdy)

>>Derivative: 2-O-[β-D-Xylopyranosyl-(1→6)-β-D-glucopyranoside]

Synonym(s): Morindone 6-β-primeveroside. **Morindin**

CAS Registry Number: 60450-21-7

Molecular Formula: C₂₆H₂₈O₁₄

Molecular Weight: 564.499

Accurate Mass: 564.14791

Percentage Composition: C 55.32%; H 5.00%; O 39.68%

Biological Source: From *Morinda* spp. and *Coprosma australis*

Physical Description: Yellow cryst. (EtOH aq.)

Melting Point: Mp 257-259°

Optical Rotation: [α]_D²⁵ -87.3 (c, 0.6 in dioxan)

>>Derivative: 2-O-[β-D-Glucopyranosyl-(1→6)-β-D-glucopyranoside]

Synonym(s): Morindone 6-β-gentiobioside

CAS Registry Number: 77587-41-8

Molecular Formula: C₂₇H₃₀O₁₅

Molecular Weight: 594.525

Accurate Mass: 594.158475

Percentage Composition: C 54.55%; H 5.09%; O 40.37%

Biological Source: Constit. of *Morinda tinctoria*

Physical Description: Orange-red needles (EtOH aq.)

Melting Point: Mp 256° (252-253°)

>>Derivative: 2-O-[α-L-Rhamnopyranosyl-(1→6)-β-D-glucopyranoside]

Synonym(s): Morindone 6-β-rutinoside

CAS Registry Number: 1400-38-0

Molecular Formula: C₂₇H₃₀O₁₄

Molecular Weight: 578.526

Accurate Mass: 578.16356

Percentage Composition: C 56.06%; H 5.23%; O 38.72%

Biological Source: Constit. of *Coprosma australis*

Physical Description: Yellow cryst. (AcOH)

Melting Point: Mp 264.5 dec.° (darkens > 150°)

Optical Rotation: [α]_D -90.9 (c, 0.054 in dioxan)