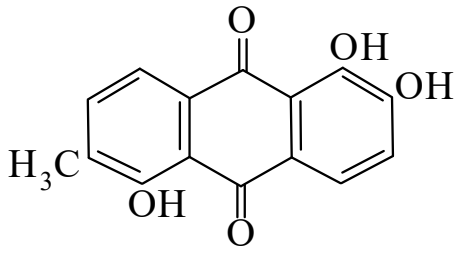
>>**Entry Name: 1,2,5-Trihydroxy-6-methylanthraquinone,** 8CI
Synonym(s): 1,2,5-Trihydroxy-6-methyl-9,10-anthracenedione, 9CI. **Morindone.** C.I. 75430



CAS Registry Number: 478-29-5

Molecular Formula: $C_{15}H_{10}O_5$
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: $C_{26}H_{28}O_{14}$
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: $[\alpha]_D^{25}$ –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: $C_{27}H_{30}O_{15}$
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: $C_{27}H_{30}O_{14}$
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: $[\alpha]_D$ –90.9 (c, 0.054 in dioxan)