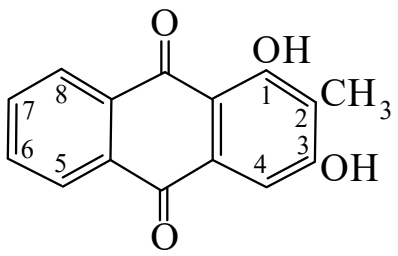
>>**Entry Name: 1,3-Dihydroxy-2-methylanthraquinone**
Synonym(s): 1,3-Dihydroxy-2-methyl-9,10-anthracenedione, 9CI. **Rubiadin.** 2-Methylxanthopurpurin. 2-Methylpurpuroxanthin



CAS Registry Number: 117-02-2

Molecular Formula: $C_{15}H_{10}O_4$
Molecular Weight: 254.242
Accurate Mass: 254.05791
Percentage Composition: C 70.86%; H 3.96%; O 25.17%
Biological Source: Constit. of *Rubia tinctorum, Coprosma* spp., *Galium* spp., aerial parts of *Putoria calabrica*, stem of *Morinda lucida*, wood of *Plocama pendula*, roots of *Cassia multijuga* etc.
Physical Description: Yellow plates (AcOH)
Melting Point: Mp 302° (290°)

>>**Derivative:** 3-Ac

Molecular Formula: $C_{17}H_{12}O_5$
Molecular Weight: 296.279
Accurate Mass: 296.068475
Percentage Composition: C 68.92%; H 4.08%; O 27.00%
Melting Point: Mp 191°

>>**Derivative:** Di-Ac

Molecular Formula: $C_{19}H_{14}O_6$
Molecular Weight: 338.316
Accurate Mass: 338.07904
Percentage Composition: C 67.45%; H 4.17%; O 28.37%
Physical Description: Yellow needles (EtOH)
Melting Point: Mp 225°

>>**Derivative:** 3-*O*-β-D-Glucopyranoside
Synonym(s): Rubiadin 3-glucoside

CAS Registry Number: 57186-30-8

Molecular Formula: $C_{21}H_{20}O_9$
Molecular Weight: 416.384
Accurate Mass: 416.110735
Percentage Composition: C 60.58%; H 4.84%; O 34.58%
Biological Source: Constit. of *Rhynchotechum vestitum*
Physical Description: Yellow needles (EtOH)
Melting Point: Mp 250-253°. Mp 270-271°
UV: [neutral] λ_{max} 288 (log ε 4.04); 328 (log ε 3.7) (MeOH)

>>**Derivative:** 3-*O*-[β-D-Xylopyranosyl-(1→6)-β-D-glucopyranoside]

CAS Registry Number: 26388-47-6

Molecular Formula: $C_{26}H_{28}O_{13}$
Molecular Weight: 548.499
Accurate Mass: 548.152995
Percentage Composition: C 56.93%; H 5.15%; O 37.92%
Biological Source: Constit. of the bark of *Cassia rotundifolia* and *Rubia tinctorum*
Physical Description: Yellow platelets (EtOH)
Melting Point: Mp 250-252°
Optical Rotation: $[\alpha]_D^{18}$ –133.3 (c, 0.1 in 60% EtOH aq.)