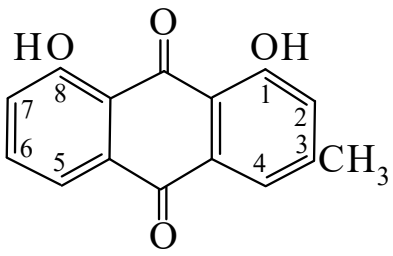
>>**Entry Name: 1,8-Dihydroxy-3-methylanthraquinone**
Synonym(s): 1,8-Dihydroxy-3-methyl-9,10-anthracenedione, 9CI. **Chrysophanol.** 3-Methylchrysazin. Rheic acid. Chrysophanic acid. Archinin. Rumicin



CAS Registry Number: 481-74-3

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 *Cassia, Rumex, Rheum, Asphodelus* and *Muehlenbeckia* spp., etc. Also isol. from *Monilinia fructicola*. V. widely distributed
Use/Importance: Antimicrobial, cathartic agent
Physical Description: Golden-yellow plates (C_6H_6)
Melting Point: Mp 200-201° (196°)
pKa Value: pK_a 8.91 (20°, H_2O)
Calculated Log P Data: Log P 2.42 (calc)
UV: [base] λ_{max} (solvent not reported) (Derep) [neutral] λ_{max} 223 (ε 36000); 253 (ε 20000); 274 (ε 10000); 285 (ε 11000); 405 (sh) (ε); 427 (ε 11000); 450 (sh) (ε) (MeOH) (Derep)

Aldrich: 22907-5
Fluka: 37700
Rare Chemicals Library: S40719-4
Sigma: C4398

>>**Derivative:** 1-*O*-β-D-Glucopyranoside
Synonym(s): Pulmatin

CAS Registry Number: 4839-60-5

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 *Rheum pulmatum*
Melting Point: Mp 232-234°
UV: [neutral] λ_{max} 223 (ε 5300); 258 (ε 3640); 430 () (MeOH) (Berdy)

>>**Derivative:** 8-*O*-β-D-Glucopyranoside
Synonym(s): Chrysophanein. Chrysophanol 8-glucoside

CAS Registry Number: 13241-28-6

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: Isol. from *Rheum*, *Rhamnus*, *Rumex* spp. and other plant spp.
Physical Description: Fine yellow needles (EtOH)
Melting Point: Mp 248-249° (245-246°)
UV: [neutral] λ_{max} 223 (ε 3840); 258 (ε 4070); 277 (); 429 () (MeOH) (Berdy)
Other Data: Kubo (1992) confirmed Chrysophanein as the 8-glucoside