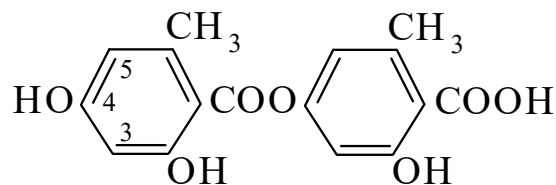




>>Entry Name: Lecanoric acid

Synonym(s): 4-Carboxy-3-hydroxy-5-methylphenyl 2,4-dihydroxy-5-methylbenzoate. 9CI. α -Orsellinic acid. *p*-Diorsellinic acid. Glabratric acid. Parmelialic acid



CAS Registry Number: 480-56-8

Molecular Formula: C₁₆H₁₄O₇

Molecular Weight: 318.282

Accurate Mass: 318.073955

Percentage Composition: C 60.38%; H 4.43%; O 35.19%

Biological Source: Occurs in numerous lichens

Physical Description: Prisms + H₂O (H₂O)

Melting Point: Mp 182 (175°) dec.°

Solubility: BERDY SOL: Sol. MeOH, CHCl₃; fairly sol. H₂O, Et₂O; poorly sol. C₆H₆, hexane

UV: [neutral] $\lambda_{\max}$ 271 (ϵ 51300); 306 (ϵ 12000) (MeOH) (Derep) [neutral] $\lambda_{\max}$ 270 (E1%/1cm 560); 306 (E1%/1cm 330) (MeOH) (Berdy) [acid] $\lambda_{\max}$ 272 (E1%/1cm 560); 308 (E1%/1cm 336) (HCl) (Berdy) [base] $\lambda_{\max}$ 240 (E1%/1cm 560); 313 (E1%/1cm 1160) (NaOH) (Berdy)

Other Data: Nicollier gives a Mp. of 127°

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, ivn) 200 mg/kg

>>Derivative: Me ester

Physical Description: Needles (EtOH)

Melting Point: Mp 146°

>>Derivative: 4-Me ether

Synonym(s): Evernic acid

CAS Registry Number: 537-09-7

Molecular Formula: C₁₇H₁₆O₇

Molecular Weight: 332.309

Accurate Mass: 332.089605

Percentage Composition: C 61.44%; H 4.85%; O 33.70%

Biological Source: Isol. from several lichens, e.g. *Evernia prunastri*, *Evernia vulgaris*, *Parmelia tayloriensis*

Use/Importance: Plant growth regulator

Physical Description: Prisms (EtOH), needles (H₂O)

Melting Point: Mp 170°

Solubility: BERDY SOL: Sol. bases; fairly sol. Et₂O; poorly sol. CHCl₃, H₂O

UV: [neutral] $\lambda_{\max}$ 263 (); 300 () (MeOH) (Berdy)

Rare Chemicals Library: S36898-9

Sigma: E1128

>>Derivative: 4-Me ether, Me ester

CAS Registry Number: 3542-22-1

Physical Description: Prisms (Me₂O)

Melting Point: Mp 149.5-150°

>>Derivative: Erythritol ester

Synonym(s): Erythrin. Erythric acid

CAS Registry Number: 480-57-9

Molecular Formula: C₂₀H₂₂O₁₀

Molecular Weight: 422.388

Accurate Mass: 422.1213

Percentage Composition: C 56.87%; H 5.25%; O 37.88%

Biological Source: Prod. by *Roccella montagnei* and *Roccella fuciformis*

Physical Description: Light-brown needles

Melting Point: Mp 165-166° (146-148°)