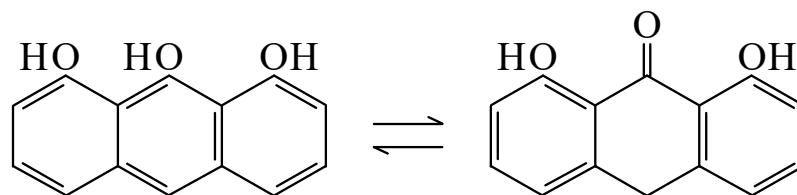




>>Entry Name: **1,8,9-Anthracenetriol**

Synonym(s): 1,8,9-Trihydroxyanthracene. 1,8,9-Anthratriol. 1,8-Dihydroxyanthrone. 1,8-Dihydroxy-9(10*H*)-anthracenone. **Dithranol**, BAN, INN. Anthralin, USAN. Chrysanthranol. Cignolin. Many other names



CAS Registry Number: 1143-38-0

Molecular Formula: C₁₄H₁₀O₃

Molecular Weight: 226.231

Accurate Mass: 226.062995

Percentage Composition: C 74.33%; H 4.46%; O 21.22%

General Statement: Tautomeric, anthrone form predominates

Biological Source: Isol. from the coral *Tubastraea micrantha*

Use/Importance: Has been used in treatment of dermatitis, psoriasis and other skin complaints. Use limited by skin irritancy and staining. Shows antiproliferative effects on keratinocytes and antiinflammatory activity

Physical Description: Yellow plates or needles (petrol)

Melting Point: Mp 178-180°

Hazard & Toxicity: Skin, eye and mucous membrane irritant. Exp. neoplastic agent. LD₅₀ (rat, orl) 3216 mg/kg

Aldrich: 25920-9

Sigma: D2773

>>Derivative: Mono-Ac

CAS Registry Number: 2891-34-1

Molecular Formula: C₁₆H₁₂O₄

Molecular Weight: 268.268

Accurate Mass: 268.07356

Percentage Composition: C 71.64%; H 4.51%; O 23.86%

Melting Point: Mp 159°

>>Derivative: Di-Ac

CAS Registry Number: 38165-75-2

Molecular Formula: C₁₈H₁₄O₅

Molecular Weight: 310.306

Accurate Mass: 310.084125

Percentage Composition: C 69.67%; H 4.55%; O 25.78%

Melting Point: Mp 210-212°

>>Derivative: Mono-Me ether

Synonym(s): 1-Hydroxy-8-methoxyanthrone

Molecular Formula: C₁₅H₁₂O₃

Molecular Weight: 240.258

Accurate Mass: 240.078645

Percentage Composition: C 74.99%; H 5.03%; O 19.98%

Physical Description: Yellow platelets or needles

Melting Point: Mp 154°. Mp 183.5°

>>Derivative: Di-Me ether

Synonym(s): 1,8-Dimethoxyanthrone

CAS Registry Number: 104970-46-9

Molecular Formula: C₁₆H₁₄O₃

Molecular Weight: 254.285

Accurate Mass: 254.094295

Percentage Composition: C 75.58%; H 5.55%; O 18.88%

Physical Description: Yellow needles (AcOH)

Melting Point: Mp 196-197°