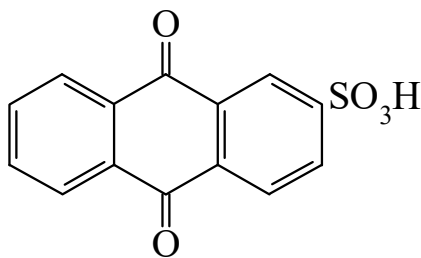




>>Entry Name: Anthraquinone-2-sulfonic acid

Synonym(s): 9,10-Dihydro-9,10-dioxo-2-anthracenesulfonic acid. β -Sulfoanthraquinone



CAS Registry Number: 84-48-0

Molecular Formula: $C_{14}H_8O_5S$

Molecular Weight: 288.28

Accurate Mass: 288.009245

Percentage Composition: C 58.33%; H 2.80%; O 27.75%; S 11.12%

Use/Importance: Used as 0.005% aq. soln. for photometric detn. of O_2 . Electron acceptor in biological redox systems

Physical Description: Leaflets + $3H_2O$ (H_2O by addn. of HCl)

Solubility: Sol. H_2O , EtOH; insol. Et_2O

pKa Value: pK_a 0.38 (20°)

>>Derivative: Na salt

Synonym(s): Sodium anthraquinone-2-sulfonate. Silver salt

CAS Registry Number: 131-08-8

Physical Description: Cryst. + $1H_2O$

Solubility: Spar. sol. H_2O

Hazard & Toxicity: Eye irritant

Aldrich: 12324-2

Fluka: 10670

>>Derivative: Me ester

Molecular Formula: $C_{15}H_{10}O_5S$

Molecular Weight: 302.307

Accurate Mass: 302.024895

Percentage Composition: C 59.60%; H 3.33%; O 26.46%; S 10.61%

Physical Description: Cryst. by subl.

Melting Point: Mp 163.6-164.2°

>>Derivative: Amide

Molecular Formula: $C_{14}H_9NO_4S$

Molecular Weight: 287.295

Accurate Mass: 287.025229

Percentage Composition: C 58.53%; H 3.16%; N 4.88%; O 22.28%; S 11.16%

Physical Description: Yellow cryst. (AcOH)

Melting Point: Mp 261°

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