



>>Entry Name: Anthraquinone-2-carboxylic acid

Synonym(s): 9,10-Dihydro-9,10-dioxo-2-anthracenecarboxylic acid, 9Cl. 9,10-Dihydro-9,10-dioxo-2-anthroic acid, 8Cl

CAS Registry Number: 117-78-2

Molecular Formula: C₁₅H₈O₄

Molecular Weight: 252.226

Accurate Mass: 252.04226

Percentage Composition: C 71.43%; H 3.20%; O 25.37%

Physical Description: Yellow needles (AcOH)

Melting Point: Mp 285-286°

Solubility: Sol. Me₂CO, spar. sol. EtOH, AcOH, prac. insol. Et₂O, C₆H₆

pKa Value: pK_a 3.42 (20°)

Other Data: Subl. on careful heating

Aldrich: 25272-7

Rare Chemicals Library: S36668-4

>>Derivative: Me ester

CAS Registry Number: 32114-48-0

Molecular Formula: C₁₆H₁₀O₄

Molecular Weight: 266.253

Accurate Mass: 266.05791

Percentage Composition: C 72.18%; H 3.79%; O 24.04%

Melting Point: Mp 170°

>>Derivative: Et ester

CAS Registry Number: 32114-49-1

Molecular Formula: C₁₇H₁₂O₄

Molecular Weight: 280.279

Accurate Mass: 280.07356

Percentage Composition: C 72.85%; H 4.32%; O 22.83%

Physical Description: Needles

Melting Point: Mp 147°

Solubility: Sol. EtOH

>>Derivative: Amide

Molecular Formula: C₁₅H₉NO₃

Molecular Weight: 251.241

Accurate Mass: 251.058244

Percentage Composition: C 71.71%; H 3.61%; N 5.58%; O 19.10%

Physical Description: Needles (AcOH/C₆H₆)

Melting Point: Mp 280°

>>Derivative: Chloride

CAS Registry Number: 6470-87-7

Molecular Formula: C₁₅H₇ClO₃

Molecular Weight: 270.671

Accurate Mass: 270.008372

Percentage Composition: C 66.56%; H 2.61%; Cl 13.10%; O 17.73%

Physical Description: Needles (C₆H₆)

Melting Point: Mp 147°

>>Derivative: Hydrazide

Melting Point: Mp 233-235°

References: