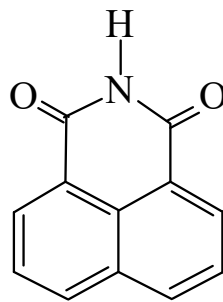




>>Entry Name: **1*H*-Benz[*de*]isoquinoline-1,3(2*H*)-dione**, 9CI

Synonym(s): Naphthalimide, 8CI



CAS Registry Number: 81-83-4

Related CAS Registry Numbers(s): 6207-89-2

Molecular Formula: C₁₂H₇NO₂

Molecular Weight: 197.193

Accurate Mass: 197.047679

Percentage Composition: C 73.09%; H 3.58%; N 7.10%; O 16.23%

Use/Importance: Parent compd. of many dyes, fluorescent brighteners and dye intermediates

Physical Description: Needles (Et₂O or EtOH)

Melting Point: Mp 300°

Other Data: Subl. undec.

Aldrich: N165-8

>>Derivative: *N*-Me

CAS Registry Number: 2382-08-3

Molecular Formula: C₁₃H₉NO₂

Molecular Weight: 211.22

Accurate Mass: 211.063329

Percentage Composition: C 73.92%; H 4.29%; N 6.63%; O 15.15%

Physical Description: Prisms (EtOH)

Melting Point: Mp 228-229° (206.5°)

>>Derivative: *N*-(2-Chloroethyl)

CAS Registry Number: 74732-00-6

Molecular Formula: C₁₄H₁₀ClNO₂

Molecular Weight: 259.691

Accurate Mass: 259.040006

Percentage Composition: C 64.75%; H 3.88%; Cl 13.65%; N 5.39%; O 12.32%

Melting Point: Mp 205 dec.°

Aldrich: 32309-8

>>Derivative: *N*-Amino

CAS Registry Number: 5690-46-0

Molecular Formula: C₁₂H₈N₂O₂

Molecular Weight: 212.207

Accurate Mass: 212.058578

Percentage Composition: C 67.92%; H 3.80%; N 13.20%; O 15.08%

Physical Description: Golden needles (MeNO₂)

Melting Point: Mp 265-266° (262°)

>>Derivative: *N*-Hydroxy

Synonym(s): 2-Hydroxy-1*H*-benz[*de*]isoquinoline-1,3(2*H*)-dione, 9CI. Naphthalhydroxamic acid

CAS Registry Number: 7797-81-1

Molecular Formula: C₁₂H₇NO₃

Molecular Weight: 213.192

Accurate Mass: 213.042594

Percentage Composition: C 67.61%; H 3.31%; N 6.57%; O 22.51%

Use/Importance: Used as 0.025% soln. in EtNH₂ for photometric detn. of Ca

Solubility: Sol. alkalis

Rare Chemicals Library: S57115-6

Sigma: N0625