



>>Entry Name: 1,6-Naphthalenedicarboxylic acid, 9Cl, 8Cl

Synonym(s): 1,6-Naphthalic acid

CAS Registry Number: 2089-87-4

Molecular Formula: C₁₂H₈O₄

Molecular Weight: 216.193

Accurate Mass: 216.04226

Percentage Composition: C 66.67%; H 3.73%; O 29.60%

Physical Description: Needles (AcOH)

Melting Point: Mp 310°

Rare Chemicals Library: S65873-1

>>Derivative: Di-Me ester

CAS Registry Number: 16144-94-8

Molecular Formula: C₁₄H₁₂O₄

Molecular Weight: 244.246

Accurate Mass: 244.07356

Percentage Composition: C 68.85%; H 4.95%; O 26.20%

Physical Description: Needles (EtOH)

Melting Point: Mp 98°

>>Derivative: Di-Et ester

CAS Registry Number: 16144-95-9

Molecular Formula: C₁₆H₁₆O₄

Molecular Weight: 272.3

Accurate Mass: 272.10486

Percentage Composition: C 70.58%; H 5.92%; O 23.50%

Boiling Point: Bp_{0.05} 140°

>>Derivative: Dichloride

Molecular Formula: C₁₂H₆Cl₂O₂

Molecular Weight: 253.084

Accurate Mass: 251.974484

Percentage Composition: C 56.95%; H 2.39%; Cl 28.02%; O 12.64%

Melting Point: Mp 124-125°

>>Derivative: Dinitrile

Synonym(s): 1,6-Dicyanonaphthalene

Molecular Formula: C₁₂H₆N₂

Molecular Weight: 178.193

Accurate Mass: 178.053098

Percentage Composition: C 80.89%; H 3.39%; N 15.72%

Physical Description: Needles (EtOH)

Melting Point: Mp 211°

References:

- Weissgerber, R. *et al.*, *Ber.*, 1919, **52**, 346, (*synth*)
Bradbrook, E.F. *et al.*, *J.C.S.*, 1936, 1739, (*synth*)
Price, C.C. *et al.*, *J.A.C.S.*, 1941, **63**, 1857, (*synth*)
Melchior, J.J. *et al.*, *Adv. Chem. Ser.*, 1965, **51**, 89
Davies, C., *Fuel*, 1973, **52**, 270; 1974, **53**, 105, (*ir, uv*)