>>**Entry Name: 1,4-Naphthalenedicarboxylic acid,** 9Cl, 8Cl
Synonym(s): 1,4-Naphthalic acid

CAS Registry Number: 605-70-9

Molecular Formula: $C_{12}H_8O_4$
Molecular Weight: 216.193
Accurate Mass: 216.04226
Percentage Composition: C 66.67%; H 3.73%; O 29.60%
Physical Description: Cryst. (AcOH)
Melting Point: Mp 325° (309°)
pKa Value: pK_{a1} 5.36 pK_{a2} 7.12
Other Data: Sol. EtOH → blue fluor.

Aldrich: 33358-1

>>**Derivative:** Di-Me ester

CAS Registry Number: 7487-15-2
Molecular Formula: $C_{14}H_{12}O_4$
Molecular Weight: 244.246
Accurate Mass: 244.07356
Percentage Composition: C 68.85%; H 4.95%; O 26.20%
Physical Description: Cryst. (AcOH)
Melting Point: Mp 67°
Boiling Point: Bp_{12} 195-197°

>>**Derivative:** Dichloride

CAS Registry Number: 13234-52-1
Molecular Formula: $C_{12}H_6Cl_2O_2$
Molecular Weight: 253.084
Accurate Mass: 251.974484
Percentage Composition: C 56.95%; H 2.39%; Cl 28.02%; O 12.64%
Physical Description: Needles (petrol)
Melting Point: Mp 80°

>>**Derivative:** Dinitrile
Synonym(s): 1,4-Dicyanonaphthalene

CAS Registry Number: 3029-30-9
Molecular Formula: $C_{12}H_6N_2$
Molecular Weight: 178.193
Accurate Mass: 178.053098
Percentage Composition: C 80.89%; H 3.39%; N 15.72%
Use/Importance: Electron acceptor, photosensitiser
Physical Description: Needles (AcOH)
Melting Point: Mp 208°

References:

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