>>**Entry Name: 4-Nitro-1,8-naphthalenedicarboxylic acid,** 9CI
Synonym(s): 4-Nitronaphthalic acid, 8CI

CAS Registry Number: 5425-83-2

Molecular Formula: $C_{12}H_7NO_6$
Molecular Weight: 261.19
Accurate Mass: 261.027339
Percentage Composition: C 55.18%; H 2.70%; N 5.36%; O 36.75%
Physical Description: Yellow cryst.
Other Data: Readily forms the anhydride on heating. Dec. at 140-50°.

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

CAS Registry Number: 30084-57-2
Molecular Formula: $C_{14}H_{11}NO_6$
Molecular Weight: 289.244
Accurate Mass: 289.058639
Percentage Composition: C 58.14%; H 3.83%; N 4.84%; O 33.19%
Physical Description: Cryst.
Melting Point: Mp 125-126°

>>**Derivative:** Di-Et ester

CAS Registry Number: 30084-59-4
Molecular Formula: $C_{16}H_{15}NO_6$
Molecular Weight: 317.298
Accurate Mass: 317.089939
Percentage Composition: C 60.57%; H 4.76%; N 4.41%; O 30.25%
Physical Description: Yellow-green cryst.
Melting Point: Mp 86°

>>**Derivative:** Anhydride

CAS Registry Number: 6642-29-1
Molecular Formula: $C_{12}H_5NO_5$
Molecular Weight: 243.175
Accurate Mass: 243.016774
Percentage Composition: C 59.27%; H 2.07%; N 5.76%; O 32.90%
Physical Description: Cryst. (AcOH or HNO_3)
Melting Point: Mp 228-229°
Rare Chemicals Library: S26596-9

>>**Derivative:** Imide

Molecular Formula: $C_{12}H_6N_2O_4$
Molecular Weight: 242.19
Accurate Mass: 242.032758
Percentage Composition: C 59.51%; H 2.50%; N 11.57%; O 26.42%
Physical Description: Cryst.
Melting Point: Mp 284°

References:

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