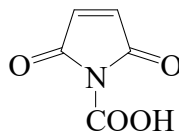




>>Entry Name: **2,5-Dihydro-2,5-dioxo-1H-pyrrole-1-carboxylic acid**

Synonym(s): *N*-Carboxymaleimide. Maleimide-*N*-carboxylic acid



Molecular Formula: C₅H₃NO₄

Molecular Weight: 141.083

Accurate Mass: 141.006209

Percentage Composition: C 42.57%; H 2.14%; N 9.93%; O 45.36%

>>Derivative: Me ester

Synonym(s): *N*-Methoxycarbonylmaleimide. *N*-Carbomethoxymaleimide

CAS Registry Number: 55750-48-6

Molecular Formula: C₆H₅NO₄

Molecular Weight: 155.11

Accurate Mass: 155.021859

Percentage Composition: C 46.46%; H 3.25%; N 9.03%; O 41.26%

Physical Description: Cryst. (EtOAc/diisopropyl ether)

Melting Point: Mp 61-63°

>>Derivative: Et ester

Synonym(s): *N*-Ethoxycarbonylmaleimide. *N*-Carbethoxymaleimide

CAS Registry Number: 55750-49-7

Molecular Formula: C₇H₇NO₄

Molecular Weight: 169.137

Accurate Mass: 169.037509

Percentage Composition: C 49.71%; H 4.17%; N 8.28%; O 37.84%

Physical Description: Cryst. (EtOAc/diisopropyl ether)

Melting Point: Mp 58-59°

>>Derivative: Amide

Synonym(s): *N*-Carbamoylmaleimide

CAS Registry Number: 3345-50-4

Molecular Formula: C₅H₄N₂O₃

Molecular Weight: 140.098

Accurate Mass: 140.022193

Percentage Composition: C 42.87%; H 2.88%; N 20.00%; O 34.26%

Physical Description: Cryst. (Ac₂O)

Melting Point: Mp 157-158°

>>Derivative: Nitrile

Synonym(s): *N*-Cyanomaleimide

CAS Registry Number: 135205-68-4

Molecular Formula: C₅H₂N₂O₂

Molecular Weight: 122.083

Accurate Mass: 122.011628

Percentage Composition: C 49.19%; H 1.65%; N 22.95%; O 26.21%

Physical Description: Cryst. (CH₂Cl₂)

Melting Point: Mp 104-106°

References:

Tawney, P.O. *et al.*, *J.O.C.*, 1960, **25**, 56-60, (*amide*)

Keller, O. *et al.*, *Helv. Chim. Acta*, 1975, **58**, 531-541, (*esters*)

Eberson, L. *et al.*, *Acta Chem. Scand.*, 1998, **52**, 608-621, (*nitrile*)