>>**Entry Name: 5-Nitro-1*H*-indole-2,3-dione,** 9CI
Synonym(s): 5-Nitroisatin

CAS Registry Number: 611-09-6

Molecular Formula: $C_8H_4N_2O_4$
Molecular Weight: 192.131
Accurate Mass: 192.017108
Percentage Composition: C 50.01%; H 2.10%; N 14.58%; O 33.31%
Physical Description: Yellow needles (EtOH)
Melting Point: Mp 254-255 dec.°
Solubility: Sol. alkalis with red colour; spar. sol. H_2O

Aldrich: N1780-7

>>**Derivative:** *N*-Ac

Molecular Formula: $C_{10}H_6N_2O_5$
Molecular Weight: 234.168
Accurate Mass: 234.027673
Percentage Composition: C 51.29%; H 2.58%; N 11.96%; O 34.16%
Physical Description: Yellow needles (C_6H_6)
Melting Point: Mp 193-194°

>>**Derivative:** 3-Oxime, benzyl ether

Molecular Formula: $C_{15}H_{11}N_3O_4$
Molecular Weight: 297.27
Accurate Mass: 297.074957
Percentage Composition: C 60.61%; H 3.73%; N 14.14%; O 21.53%
Melting Point: Mp 234-235°
Solubility: Sol. Me_2CO, C_6H_6; spar. sol. EtOH

>>**Derivative:** 3-Phenylhydrazone

Physical Description: Yellow cryst. (EtOH)
Melting Point: Mp 295°

>>**Derivative:** *N*-Me
Synonym(s): 1-Methyl-5-nitro-1*H*-indole-2,3-dione

CAS Registry Number: 3484-32-0
Molecular Formula: $C_9H_6N_2O_4$
Molecular Weight: 206.157
Accurate Mass: 206.032758
Percentage Composition: C 52.44%; H 2.93%; N 13.59%; O 31.04%
Physical Description: Orange needles (AcOH aq.)
Melting Point: Mp 204-206°

>>**Derivative:** *N*-Me, hydrazone

Molecular Formula: $C_9H_8N_4O_3$
Molecular Weight: 220.187
Accurate Mass: 220.059641
Percentage Composition: C 49.09%; H 3.66%; N 25.45%; O 21.80%
Physical Description: Yellow needles (EtOH)
Melting Point: Mp 210 dec.°

References: