



>>Entry Name: **2,3-Dihydro-5-nitro-1,4-phthalazinedione**, 9CI, 8CI

Synonym(s): 3-Nitrophthalhydrazide

CAS Registry Number: 3682-15-3

Structure by analogy with 2,3-Dihydro-6-nitro-1,4-phthalazinedione, [MRG21-Z](#)

Molecular Formula: $C_8H_5N_3O_4$

Molecular Weight: 207.145

Accurate Mass: 207.028007

Percentage Composition: C 46.39%; H 2.43%; N 20.29%; O 30.90%

Physical Description: Pale yellow cryst. (AcOH)

Melting Point: Mp 320 dec.°

pKa Value: pK_{a1} 5.11 pK_{a2} 13.74

Aldrich: 27808-4

References:

Bogert, M.T. *et al.*, *J.A.C.S.*, 1901, **23**, 740, (*synth*)

Huntress, E.H. *et al.*, *J.A.C.S.*, 1934, **56**, 241, (*synth*)

Drew, H.D.K. *et al.*, *J.C.S.*, 1937, **26**, 26, (*synth*)

Kalinichenko, I.E. *et al.*, *J. Gen. Chem. USSR (Engl. Transl.)*, 1978, **48**, 299, (*props*)