



>>Entry Name: 3-Chlorophenylhydrazonopropanedinitrile, 9Cl

Synonym(s): Mesoxalonitrile *m*-chlorophenylhydrazone, 8Cl. Carbonyl cyanide 3-chlorophenylhydrazone. (3-Chlorophenylazo)malononitrile

CAS Registry Number: 555-60-2

Structure by analogy with 2-Chlorophenylhydrazonopropanedinitrile, [FPC89-S](#)

Molecular Formula: C₉H₅ClN₄

Molecular Weight: 204.618

Accurate Mass: 204.020273

Percentage Composition: C 52.83%; H 2.46%; Cl 17.33%; N 27.38%

Use/Importance: Efficient agent for uncoupling of oxidative phosphorylation, valuable tool for studying biol. processes

Physical Description: Yellow cryst. (EtOH)

Melting Point: Mp 175-177 dec.°

pKa Value: pK_a 6 (57% EtOH)

Hazard & Toxicity: LD₅₀ (mus, ipr) 8 mg/kg

Aldrich: 85781-5

Fluka: 21855

Sigma: C2759

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 1503A, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 440C, (*ir*)

Biochem. Prep., 1971, **13**, 82, (*synth*)

Brown, G.R. *et al.*, *Eur. J. Med. Chem. (Chim. Ther.)*, 1977, **12**, 361, (*synth*)

Sulo, P. *et al.*, *Coll. Czech. Chem. Comm.*, 1985, **50**, 375, (*bibl*)