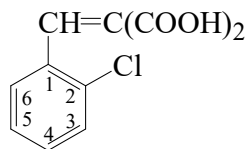




>>Entry Name: [(2-Chlorophenyl)methylene]propanedioic acid, 9Cl

Synonym(s): (*o*-Chlorobenzylidene)malonic acid, 8Cl



CAS Registry Number: 20851-50-7

Molecular Formula: C₁₀H₇ClO₄

Molecular Weight: 226.616

Accurate Mass: 226.003287

Percentage Composition: C 53.00%; H 3.11%; Cl 15.64%; O 28.24%

Melting Point: Mp 192°

>>Derivative: Dinitrile

Synonym(s): (2-Chlorobenzylidene)propanedinitrile. [(2-Chlorophenyl)methylene]propanedinitrile, 9Cl. (*o*-Chlorobenzylidene)malononitrile, 8Cl. CS gas

CAS Registry Number: 2698-41-1

Molecular Formula: C₁₀H₅ClN₂

Molecular Weight: 188.616

Accurate Mass: 188.014125

Percentage Composition: C 63.68%; H 2.67%; Cl 18.80%; N 14.85%

Use/Importance: Riot control agent

Physical Description: Cryst.

Melting Point: Mp 95.2-95.8°

Hazard & Toxicity: Potent lachrymator and upper respiratory tract irritant. Corrosive and irritating to skin causing erythema and vesiculation; exacerbated by presence of moisture

Rare Chemicals Library: S41841-2

References:

Corson, B.R. *et al.*, *J.A.C.S.*, 1928, **50**, 2825-2837, (*dinitrile, synth, props*)

Pandya, K.C. *et al.*, *Proc. - Indian Acad. Sci., Sect. A*, 1941, **14**, 112-122; *CA*, 1942, **36**, 1599, (*synth*)

Heggie, R.M. *et al.*, *Can. J. Chem.*, 1965, **43**, 2585, (*dinitrile, pmr*)

Jones, G.R.N., *Nature (London)*, 1972, 257, (*dinitrile, rev*)

U.S. Pat., 1973, 3 715 379; *CA*, **78**, 124322, (*dinitrile, synth*)

Hu, H., *Chemical Warfare Agents*, (ed. Somani, S.M.), Academic Press, 1992, 279, (*dinitrile, tox*)

Martindale, *The Extra Pharmacopoeia*, 30th edn., Pharmaceutical Press, 1993, 1359, (*dinitrile*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, CEQ600, (*dinitrile*)