



>>Entry Name: 3-Chloro-4-nitrobenzoic acid, 9Cl, 8Cl

CAS Registry Number: 39608-47-4

Structure by analogy with 2-Chloro-3-nitrobenzoic acid, [DWX39-F](#)

Molecular Formula: $C_7H_4ClNO_4$

Molecular Weight: 201.566

Accurate Mass: 200.982886

Percentage Composition: C 41.71%; H 2.00%; Cl 17.59%; N 6.95%; O 31.75%

Physical Description: Cryst. ($CHCl_3$)

Melting Point: Mp 183-184°

>>Derivative: Chloride

Molecular Formula: $C_7H_3Cl_2NO_3$

Molecular Weight: 220.011

Accurate Mass: 218.948998

Percentage Composition: C 38.21%; H 1.37%; Cl 32.23%; N 6.37%; O 21.82%

Melting Point: Mp 54-56°

>>Derivative: Nitrile

Synonym(s): 2-Chloro-4-cyano-1-nitrobenzene

CAS Registry Number: 34662-29-8

Molecular Formula: $C_7H_3ClN_2O_2$

Molecular Weight: 182.566

Accurate Mass: 181.988305

Percentage Composition: C 46.05%; H 1.66%; Cl 19.42%; N 15.34%; O 17.53%

Physical Description: Needles

Melting Point: Mp 87°

References:

Goldstein, H. *et al.*, *Helv. Chim. Acta*, 1952, **35**, 1470, (*synth*)

Greizerstein, W. *et al.*, *J.A.C.S.*, 1962, **84**, 1026, (*synth*)