



>>Entry Name: 3,6-Dichloro-2-pyridinecarboxylic acid

Synonym(s): 3,6-Dichloropicolinic acid, 8Cl. Clopyralid, ANSI, BSI. Lontrel. 3,6-DCP

CAS Registry Number: 1702-17-6

Related CAS Registry Numbers(s): 57754-85-5

Molecular Formula: $C_6H_3Cl_2NO_2$

Molecular Weight: 192.001

Accurate Mass: 190.954083

Percentage Composition: C 37.53%; H 1.57%; Cl 36.93%; N 7.30%; O 16.67%

Biological Use/Importance: Systemic, post-emergent herbicide

Physical Description: Cryst. (C_6H_6)

Melting Point: Mp 152-153°

pKa Value: pK_a 2.33

Hazard & Toxicity: LD_{50} (rat, orl) >4300-5000 mg/kg. Exp. teratogen

Rare Chemicals Library: S1124-0

>>Derivative: Me ester

CAS Registry Number: 1532-24-7

Molecular Formula: $C_7H_5Cl_2NO_2$

Molecular Weight: 206.027

Accurate Mass: 204.969733

Percentage Composition: C 40.81%; H 2.45%; Cl 34.42%; N 6.80%; O 15.53%

Melting Point: Mp 53-54°

Rare Chemicals Library: S4737-7

>>Derivative: Amide

CAS Registry Number: 1532-25-8

Molecular Formula: $C_6H_4Cl_2N_2O$

Molecular Weight: 191.016

Accurate Mass: 189.970067

Percentage Composition: C 37.73%; H 2.11%; Cl 37.12%; N 14.67%; O 8.38%

Physical Description: Cryst.

Melting Point: Mp 188°

References:

Fr. Pat., 1965, 1 394 147; *CA*, **63**, 1773g, (*synth*)

U.S. Pat., 1967, 3 317 549; *CA*, **68**, 29611q, (*synth*, *Me ester*, *amide*)

Res. Discl., 1985, **253**, 230, (*activity*)

Pesticide Manual, 9th edn., 1991, 3215

Agrochemicals Handbook, 3rd edn., Royal Society of Chemistry, 1992, A433

Marzi, E. *et al.*, *Eur. J. Org. Chem.*, 2001, 1371-1376, (*synth*, *pmr*, *cmr*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, DGJ100