



>>Entry Name: 1,1,2,2-Ethanetetracarbonitrile, 9CI

Synonym(s): 1,1,2,2-Tetracyanoethane

CAS Registry Number: 14778-29-1

(NC)₂CHCH(CN)₂

Molecular Formula: C₆H₂N₄

Molecular Weight: 130.109

Accurate Mass: 130.027946

Percentage Composition: C 55.39%; H 1.55%; N 43.06%

Physical Description: Cryst. (EtOAc/hexane or by subl.)

Melting Point: Mp 170-175° (dec.)

pKa Value: pK_a 3.6

Hazard & Toxicity: Very toxic

References:

Middleton, W.J. *et al.*, *J.A.C.S.*, 1958, **80**, 2783, (*synth*)

Powell, D.L. *et al.*, *Acta Chem. Scand.*, 1973, **27**, 613, (*ir, Raman*)

Nasakin, O.E. *et al.*, *Zh. Org. Khim.*, 1981, **17**, 872; *J. Org. Chem. USSR (Engl. Transl.)*, 1981, **17**, 767, (*synth*)

Nasakin, O.E. *et al.*, *Zh. Prikl. Khim. (Leningrad)*, 1982, **55**, 1399; *J. Appl. Chem. USSR (Engl. Transl.)*, 1982, **55**, 1286, (*synth*)

Declerq, J.P. *et al.*, *Acta Cryst. C*, 1983, **39**, 1401, (*cryst struct*)

Jagodzinski, T.S. *et al.*, *J. Prakt. Chem.*, 1996, **338**, 578, (*synth*)