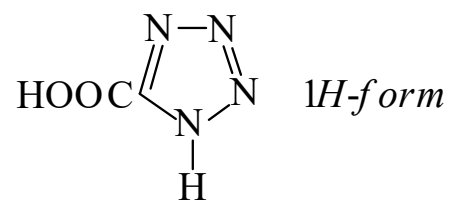




>>Entry Name: 5-Tetrazolecarboxylic acid



CAS Registry Number: 75773-99-8

Molecular Formula: C₂H₂N₄O₂

Molecular Weight: 114.063

Accurate Mass: 114.017776

Percentage Composition: C 21.06%; H 1.77%; N 49.12%; O 28.05%

>>Derivative: Et ester

CAS Registry Number: 55408-10-1

Molecular Formula: C₄H₆N₄O₂

Molecular Weight: 142.117

Accurate Mass: 142.049076

Percentage Composition: C 33.81%; H 4.26%; N 39.42%; O 22.52%

Physical Description: Solid

Melting Point: Mp 87.5-91.5°

>>Derivative: Nitrile

Synonym(s): 1*H*-Tetrazole-5-carbonitrile. 5-Cyanotetrazole

CAS Registry Number: 74418-40-9

Molecular Formula: C₂HN₅

Molecular Weight: 95.063

Accurate Mass: 95.023195

Percentage Composition: C 25.27%; H 1.06%; N 73.67%

Physical Description: Hygroscopic cryst. (C₆H₆)

Melting Point: Mp 103-104 dec.° (99°)

Other Data: Turns red at ca. 95°

References:

Matsuda, K. *et al.*, *J.O.C.*, 1961, **26**, 3783-3787, (*nitrile, synth*)

O'Brien, P.M. *et al.*, *J. Med. Chem.*, 1996, **39**, 2354-2366, (*Et ester, synth, pmr*)