



>>Entry Name: 5-Methyl-1*H*-imidazole-4-carboxylic acid, 9CI

Synonym(s): 5-Methylglyoxaline-4-carboxylic acid

CAS Registry Number: 1457-59-6

Molecular Formula: C₅H₆N₂O₂

Molecular Weight: 126.115

Accurate Mass: 126.042928

Percentage Composition: C 47.62%; H 4.80%; N 22.21%; O 25.37%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 222-223°

>>Derivative: Hydrochloride

Melting Point: Mp 231°

>>Derivative: Et ester

CAS Registry Number: 51605-32-4

Molecular Formula: C₇H₁₀N₂O₂

Molecular Weight: 154.168

Accurate Mass: 154.074228

Percentage Composition: C 54.54%; H 6.54%; N 18.17%; O 20.76%

Melting Point: Mp 204-205°

Aldrich: 19989-3

Sigma: M1262

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 624A, (*ir*)

Aldrich Library of NMR Spectra, 2nd edn., 1983, **2**, 495D, (*nmr*)

Fargher, R.G. *et al.*, *J.C.S.*, 1919, **115**, 217

Hubball, W. *et al.*, *J.C.S.*, 1928, 21

Cornforth, J.W. *et al.*, *J.C.S.*, 1953, 93

Böhme, H. *et al.*, *Chem. Ber.*, 1959, **91**, 988

Haake, P. *et al.*, *J. Phys. Chem.*, 1968, **72**, 2213