



>>Entry Name: 5-Methyl-2-oxazolecarboxylic acid, 9CI

Related CAS Registry Numbers(s): 33123-76-1

Molecular Formula: C₅H₅NO₃

Molecular Weight: 127.099

Accurate Mass: 127.026944

Percentage Composition: C 47.25%; H 3.97%; N 11.02%; O 37.76%

>>Derivative: Et ester

CAS Registry Number: 33123-68-1

Molecular Formula: C₇H₉NO₃

Molecular Weight: 155.153

Accurate Mass: 155.058244

Percentage Composition: C 54.19%; H 5.85%; N 9.03%; O 30.94%

Use/Importance: Inhibitor of aldose reductases

Boiling Point: Bp_{0.45} 85-90°

>>Derivative: Et ester, HgCl₂ complex

CAS Registry Number: 28988-97-8

Physical Description: Solid (EtOH)

Melting Point: Mp 110-113°

>>Derivative: Amide

CAS Registry Number: 28989-01-7

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: Solid (EtOH)

Melting Point: Mp 163°

>>Derivative: Nitrile

Synonym(s): 2-Cyano-5-methyloxazole

CAS Registry Number: 28989-03-9

Molecular Formula: C₅H₄N₂O

Molecular Weight: 108.099

Accurate Mass: 108.032363

Percentage Composition: C 55.56%; H 3.73%; N 25.91%; O 14.80%

Physical Description: Liq.

Boiling Point: Bp₄₅₀ 160°

References:

Good, R.H. *et al.*, *J.C.S.(C)*, 1970, 1938, (*synth, pmr, ir, uv*)

Terui, Y. *et al.*, *Heterocycles*, 1982, **19**, 221, (*cmr, nitrile*)

Tanimoto, T. *et al.*, *Chem. Pharm. Bull.*, 1984, **32**, 1032, (*props*)