



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

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

Molecular Formula:  $C_5H_5NO_3$

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:  $C_7H_9NO_3$

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,  $HgCl_2$  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:  $C_5H_6N_2O_2$

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:  $C_5H_4N_2O$

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:  $Bp_{450}$  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*)