



>>Entry Name: 5-Hydroxypyrazinecarboxylic acid, 9CI

Synonym(s): 4,5-Dihydro-5-oxopyrazinecarboxylic acid. 5-Hydroxypyrazinoic acid

CAS Registry Number: 34604-60-9

Molecular Formula: C₅H₄N₂O₃

Molecular Weight: 140.098

Accurate Mass: 140.022193

Percentage Composition: C 42.87%; H 2.88%; N 20.00%; O 34.26%

Physical Description: Solid

Solubility: Sl. sol. H₂O; spar. sol. EtOH; insol. CHCl₃, Et₂O

Other Data: Mp >300° (dec.)

Aldrich: 43956-8

Other: Lonza

>>Derivative: Me ester

CAS Registry Number: 13924-95-3

Molecular Formula: C₆H₆N₂O₃

Molecular Weight: 154.125

Accurate Mass: 154.037843

Percentage Composition: C 46.76%; H 3.92%; N 18.18%; O 31.14%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 183-185°

>>Derivative: Amide

Molecular Formula: C₅H₅N₃O₂

Molecular Weight: 139.113

Accurate Mass: 139.038177

Percentage Composition: C 43.17%; H 3.62%; N 30.21%; O 23.00%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 292-295° (dec.)

>>Derivative: Me ether

Molecular Formula: C₆H₆N₂O₃

Molecular Weight: 154.125

Accurate Mass: 154.037843

Percentage Composition: C 46.76%; H 3.92%; N 18.18%; O 31.14%

Melting Point: Mp 197.5-199.5°

>>Derivative: Me ether, Me ester

Molecular Formula: C₇H₈N₂O₃

Molecular Weight: 168.152

Accurate Mass: 168.053493

Percentage Composition: C 50.00%; H 4.80%; N 16.66%; O 28.54%

Melting Point: Mp 98.5-99.5°

>>Derivative: 4-Oxide

CAS Registry Number: 38870-50-7

Molecular Formula: C₅H₄N₂O₄

Molecular Weight: 156.098

Accurate Mass: 156.017108

Percentage Composition: C 38.47%; H 2.58%; N 17.95%; O 41.00%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 234-235° (dec.)

References:

Felder, E. *et al.*, *Helv. Chim. Acta*, 1964, **47**, 873-876, (*synth*)

Foks, H. *et al.*, *Acta Pol. Pharm.*, 1966, **23**, 411; *CA*, **66**, 94996s

Elina, A.S. *et al.*, *Chem. Heterocycl. Compd.*, 1972, **8**, 1153-1158, (*4-oxide*)

Uchimaru, F. *et al.*, *Chem. Pharm. Bull.*, 1972, **20**, 2204-2208, (*Me ester, Me ether, synth, pmr*)

Weiner, I.M. *et al.*, *J. Pharmacol. Exp. Ther.*, 1972, **180**, 411-434