



Sigma: A8004

>>>**Derivative:** Amide, compd. with orotic acid (1:1)

Synonym(s): **Orazamide**, INN. Aicamin. Aicorat. Clinadol

CAS Registry Number: 2574-78-9

Use/Importance: Used in treatment of liver disorders

Physical Description: Cryst. + 2H₂O

Other Data: Dec. at 284-285°

>>>**Derivative:** Amide, compd. with [*N*-(Aminocarbonyl)]-L-aspartic acid

Synonym(s): **Urazamide**. Aicase. Carbaica. Colahepat. Liporgol

CAS Registry Number: 34879-34-0

Hazard & Toxicity: LD₅₀ (rat, ivn) 1190mg/kg

>>>**Derivative:** Nitrile

Synonym(s): 5-Amino-4-cyanoimidazole

CAS Registry Number: 5098-11-3

Molecular Formula: C₄H₄N₄

Molecular Weight: 108.102

Accurate Mass: 108.043596

Percentage Composition: C 44.44%; H 3.73%; N 51.83%

Use/Importance: Suspected intermed. in HCN polymerisation

Physical Description: Cryst. (THF/CHCl₃)

Melting Point: Mp 123-125°

>>>**Derivative:** Methylamide, *N*⁵-Me

Synonym(s): *N*-Methyl-5-(methylamino)-1*H*-imidazole-4-carboxamide, 9Cl. 5-(Methylamino)-4-(methylcarbamoyl)imidazole. Theophyllidine

CAS Registry Number: 6736-40-9

Molecular Formula: C₆H₁₀N₄O

Molecular Weight: 154.171

Accurate Mass: 154.085461

Percentage Composition: C 46.74%; H 6.54%; N 36.34%; O 10.38%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 179-181 dec.°

>>>**Derivative:** Methylamide, *N*⁵-Me; hydrochloride

Melting Point: Mp 195 dec.°

>>>**Derivative:** Amide, *N*¹-Me

CAS Registry Number: 21343-04-4

Molecular Formula: C₅H₈N₄O

Molecular Weight: 140.144

Accurate Mass: 140.069811

Percentage Composition: C 42.85%; H 5.75%; N 39.98%; O 11.42%

Physical Description: Reddish solid (H₂O)

Melting Point: Mp 260 dec.°

>>>**Derivative:** *N*¹-Amino, nitrile

Synonym(s): 1,5-Diamino-1*H*-imidazole-4-carbonitrile, 9Cl

CAS Registry Number: 141563-06-6

Molecular Formula: C₄H₅N₅

Molecular Weight: 123.117

Accurate Mass: 123.054495

Percentage Composition: C 39.02%; H 4.09%; N 56.88%

Use/Importance: Intermed. in purine synth.

Physical Description: Yellow solid

Melting Point: Mp 214-215.5 dec.°

References: