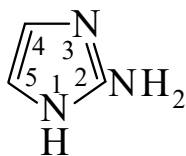




>>Entry Name: 2-Aminoimidazole, 8Cl

Synonym(s): 1*H*-Imidazol-2-amine, 9Cl. 2-Aminoglyoxaline



CAS Registry Number: 7720-39-0

Related CAS Registry Numbers(s): 1450-94-8

Molecular Formula: C₃H₅N₃

Molecular Weight: 83.093

Accurate Mass: 83.048347

Percentage Composition: C 43.36%; H 6.06%; N 50.57%

Biological Source: Isol. from the sponge *Reniera cratera*. Also occurs in the seeds of the legume *Mundulea sericea*, and has been shown to be a precursor of the antibiotic 2-Nitroimidazole [HQV23-O](#) in *Streptomyces eurocidicus*

Rare Chemicals Library: S91471-1

>>Derivative: Hydrochloride

CAS Registry Number: 57575-96-9

Melting Point: Mp 152°

Other Data: Hygroscopic

>>Derivative: Nitrate

Melting Point: Mp 135-136°

>>Derivative: Sulfate (2:1)

CAS Registry Number: 1450-93-7

Extra CAS Registry Numbers(s): 42383-61-9

Melting Point: Mp 270 dec.°

Aldrich: 19791-2

>>Derivative: Picrate

Melting Point: Mp 236°

>>Derivative: 2-*N*-Ac

Synonym(s): 2-Acetamidoimidazole

CAS Registry Number: 52737-49-2

Molecular Formula: C₅H₇N₃O

Molecular Weight: 125.13

Accurate Mass: 125.058912

Percentage Composition: C 47.99%; H 5.64%; N 33.58%; O 12.79%

Melting Point: Mp 285 (270-275°) dec.°

>>Derivative: 1-Me

CAS Registry Number: 6646-51-1

Molecular Formula: C₄H₇N₃

Molecular Weight: 97.119

Accurate Mass: 97.063997

Percentage Composition: C 49.47%; H 7.26%; N 43.27%

Physical Description: Prismatic needles (EtOH/EtOAc) (as hydrochloride)

Melting Point: Mp 84° (hydrochloride)

References:

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Lawson, A., *J.C.S.*, 1956, 307, (*synth*)

Seki, Y. *et al.*, *J. Biochem. (Tokyo)*, 1970, **67**, 389, (*isol, ir, pmr*)

Cimino, G. *et al.*, *Comp. Biochem. Physiol., B: Comp. Biochem.*, 1974, **47**, 895, (*isol, uv, pmr, ms*)

Fellows, L.E. *et al.*, *Phytochemistry*, 1977, **16**, 1399, (*isol, pmr, ms*)