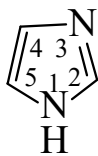




>>Entry Name: Imidazole, 9CI, 8CI

Synonym(s): Glyoxaline. Iminazole. 1,3-Diazole



CAS Registry Number: 288-32-4

Related CAS Registry Numbers(s): 17009-90-4 36877-68-6

Molecular Formula: C₃H₄N₂

Molecular Weight: 68.078

Accurate Mass: 68.037448

Percentage Composition: C 52.93%; H 5.92%; N 41.15%

altissimum, *Erythrophleum* sp., *Lathyrus rotundifolius*, *Lathyrus sylvestris*, *Macrotyloma uniflorum*, *Parkia bicolor*, *Psophocarpus tetragonolobus*, *Tephrosia platycarpa*, *Vigna radiata*

Use/Importance: Used as aq. soln. to accelerate the colour reaction in photometric detn. of Co with porphine. Epoxy resin curing agent

Melting Point: Mp 88-90°

Boiling Point: Bp 255°

Solubility: Sol. H₂O, EtOH, Et₂O, Me₂CO

pKa Value: pK_{a1} 7; pK_{a2} 14.52 (25°, acidic)

Other Data: Sublimes

Hazard & Toxicity: LD₅₀ (mus, orl) 880 mg/kg

Aldrich: I-20-2

Fluka: 56747

Sigma: I2399

>>Derivative: Na salt

CAS Registry Number: 5587-42-8

Melting Point: Mp 284 dec.°

Aldrich: 19763-7

Fluka: 56772

>>Derivative: Dichromate salt

CAS Registry Number: 109201-26-5

Melting Point: Mp 126 dec.°

Aldrich: 39932-9

>>Derivative: Hydrochloride

CAS Registry Number: 1467-16-9

Physical Description: Hygroscopic solid

Melting Point: Mp 158-161°

Aldrich: 30200-7

Fluka: 56752

Sigma: I3386

>>Derivative: N-Formyl

Synonym(s): 1*H*-Imidazole-1-carboxaldehyde, 9CI. 1-Formylimidazole

CAS Registry Number: 3197-61-3

Molecular Formula: C₄H₄N₂O

Molecular Weight: 96.088

Accurate Mass: 96.032363

Percentage Composition: C 50.00%; H 4.20%; N 29.15%; O 16.65%

Use/Importance: Formylating agent for amines effective at r.t.

Physical Description: Hygroscopic cryst.

Melting Point: Mp 53-55°

Other Data: Loses CO at 60°