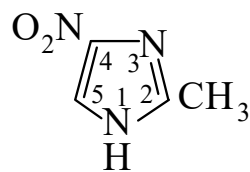




>>Entry Name: 2-Methyl-4(5)-nitroimidazole



CAS Registry Number: 696-23-1

Related CAS Registry Numbers(s): 57591-48-7 88054-22-2

Molecular Formula: C₄H₅N₃O₂

Molecular Weight: 127.102

Accurate Mass: 127.038177

Percentage Composition: C 37.80%; H 3.96%; N 33.06%; O 25.18%

Physical Description: Cryst.

Melting Point: Mp 255°

>>Variant: 1*H*-form

Molecular Formula: C₄H₅N₃O₂

Molecular Weight: 127.102

Accurate Mass: 127.038177

Percentage Composition: C 37.80%; H 3.96%; N 33.06%; O 25.18%

>>Derivative: *N*-Me

Synonym(s): 1,2-Dimethyl-4-nitroimidazole

CAS Registry Number: 13230-04-1

Molecular Formula: C₅H₇N₃O₂

Molecular Weight: 141.129

Accurate Mass: 141.053827

Percentage Composition: C 42.55%; H 5.00%; N 29.77%; O 22.67%

Physical Description: Cryst. (2-propanol)

Melting Point: Mp 183°

>>Derivative: *N*-Nitro

Synonym(s): 2-Methyl-1,4-dinitroimidazole

Molecular Formula: C₄H₄N₄O₄

Molecular Weight: 172.1

Accurate Mass: 172.023256

Percentage Composition: C 27.92%; H 2.34%; N 32.55%; O 37.19%

Melting Point: Mp 121-123°

>>Variant: 3*H*-form

Molecular Formula: C₄H₅N₃O₂

Molecular Weight: 127.102

Accurate Mass: 127.038177

Percentage Composition: C 37.80%; H 3.96%; N 33.06%; O 25.18%

>>Derivative: *N*-Me

Synonym(s): 1,2-Dimethyl-5-nitro-1*H*-imidazole. **Dimetridazole**, BAN, INN. Emtryl. Emtrymix

CAS Registry Number: 551-92-8

Molecular Formula: C₅H₇N₃O₂

Molecular Weight: 141.129

Accurate Mass: 141.053827

Percentage Composition: C 42.55%; H 5.00%; N 29.77%; O 22.67%

Use/Importance: Veterinary antiprotozoal agent

Physical Description: Cryst. (EtOAc) or needles (H₂O)

Melting Point: Mp 140° (138-139°)

Hazard & Toxicity: Mutagen props.