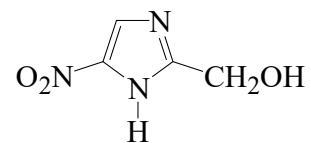




>>Entry Name: 5-Nitro-1*H*-imidazole-2-methanol

Synonym(s): 2-(Hydroxymethyl)-5-nitro-1*H*-imidazole



Molecular Formula: C₄H₅N₃O₃

Molecular Weight: 143.102

Accurate Mass: 143.033092

Percentage Composition: C 33.57%; H 3.52%; N 29.36%; O 33.54%

>>Derivative: *N*¹-Me

CAS Registry Number: 936-05-0

Molecular Formula: C₅H₇N₃O₃

Molecular Weight: 157.129

Accurate Mass: 157.048742

Percentage Composition: C 38.22%; H 4.49%; N 26.74%; O 30.55%

Physical Description: Pale yellow cryst. (toluene)

Melting Point: Mp 115-116° (112°)

>>Derivative: *N*¹-Et

CAS Registry Number: 1564-15-4

Molecular Formula: C₆H₉N₃O₃

Molecular Weight: 171.155

Accurate Mass: 171.064392

Percentage Composition: C 42.11%; H 5.30%; N 24.55%; O 28.04%

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 102°

References:

Rufer, C. *et al.*, *J. Med. Chem.*, 1971, **14**, 94-96, (*N*-Me, *N*-Et)

Adebayo, A.T.O.M. *et al.*, *J.C.S. Perkin I*, 1987, 2819-2827, (*N*-Me)

Borch, R.F. *et al.*, *J. Med. Chem.*, 2000, **43**, 2258-2265, (*N*-Me, synth, pmr)