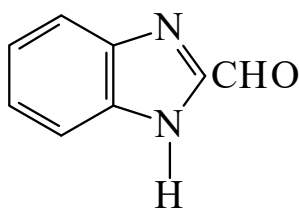




>>Entry Name: **1*H*-Benzimidazole-2-carboxaldehyde**

Synonym(s): 2-Formylbenzimidazole



CAS Registry Number: 3314-30-5

Related CAS Registry Numbers(s): 6816-39-3

Molecular Formula: C₈H₆N₂O

Molecular Weight: 146.148

Accurate Mass: 146.048013

Percentage Composition: C 65.75%; H 4.14%; N 19.17%; O 10.95%

General Statement: Exists as cyclic semiaminal dimer in solid state

Physical Description: Powder

Melting Point: Mp 235 dec.°

Rare Chemicals Library: S28065-8

>>Derivative: 1-Benzyl, oxime

CAS Registry Number: 62209-30-7

Molecular Formula: C₁₅H₁₃N₃O

Molecular Weight: 251.287

Accurate Mass: 251.105862

Percentage Composition: C 71.70%; H 5.21%; N 16.72%; O 6.37%

Use/Importance: Used as a 0.02% soln. in CHCl₃ for extraction-photometric detn. of Co, Cu

Physical Description: Cryst. (C₆H₆)

Solubility: Sol. C₆H₆, EtOH, CHCl₃; insol. H₂O

References:

Hensel, H.R. *et al.*, *Chem. Ber.*, 1965, **98**, 1325, (*struct*)

Chernov'yants, M.S. *et al.*, *CA*, 1977, **87**, 94945h

Ooi, H.C. *et al.*, *J.C.S. Perkin I*, 1982, 2871, (*synth*)