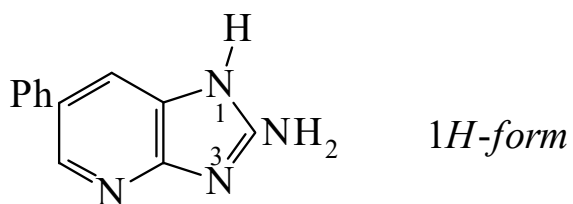




>>Entry Name: 2-Amino-6-phenylimidazo[4,5-*b*]pyridine



Molecular Formula: C₁₂H₁₀N₄

Molecular Weight: 210.238

Accurate Mass: 210.090546

Percentage Composition: C 68.56%; H 4.79%; N 26.65%

>>Variant: 1*H*-form

Molecular Formula: C₁₂H₁₀N₄

Molecular Weight: 210.238

Accurate Mass: 210.090546

Percentage Composition: C 68.56%; H 4.79%; N 26.65%

>>Derivative: 1-Me

Synonym(s): 1-Methyl-6-phenyl-1*H*-imidazo[4,5-*b*]pyridin-2-amine, 9CI. 2-Amino-1-methyl-6-phenyl-1*H*-imidazo[4,5-*b*]pyridine. PhIP

CAS Registry Number: 105650-23-5

Molecular Formula: C₁₃H₁₂N₄

Molecular Weight: 224.265

Accurate Mass: 224.106196

Percentage Composition: C 69.62%; H 5.39%; N 24.98%

Source/Synthesis: Mutagen isol. from grilled meat and fish

Physical Description: Solid

Melting Point: Mp 327-328°

Hazard & Toxicity: Mutagen

>>Variant: 3*H*-form

Molecular Formula: C₁₂H₁₀N₄

Molecular Weight: 210.238

Accurate Mass: 210.090546

Percentage Composition: C 68.56%; H 4.79%; N 26.65%

>>Derivative: 3-Me

Synonym(s): 2-Amino-3-methyl-6-phenyl-3*H*-imidazo[4,5-*b*]pyridine

Molecular Formula: C₁₃H₁₂N₄

Molecular Weight: 224.265

Accurate Mass: 224.106196

Percentage Composition: C 69.62%; H 5.39%; N 24.98%

Melting Point: Mp 217°

Hazard & Toxicity: Mutagen

References:

Knize, M.G. *et al.*, *Heterocycles*, 1986, **24**, 1815, (*synth, ir, uv, pmr, cmr*)

Lindström, S. *et al.*, *Acta Chem. Scand.*, 1993, **47**, 805; 1995, **49**, 361, (*synth, bibl*)