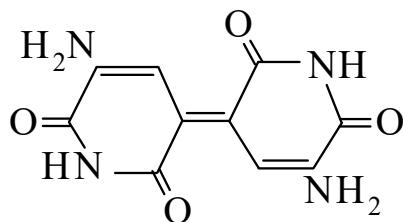




>>Entry Name: Indigoidin

Synonym(s): 5-Amino-3-[5-amino-1,6-dihydro-2,6-dioxo-3(2H)-pyridinylidene]-2,6(1H,3H)-pyridinedione, 9Cl



CAS Registry Number: 2435-59-8

Molecular Formula: C₁₀H₈N₄O₄

Molecular Weight: 248.198

Accurate Mass: 248.054556

Percentage Composition: C 48.39%; H 3.25%; N 22.57%; O 25.78%

Biological Source: Blue pigment from *Corynebacterium insidiosum*, *Pseudomonas indigofera*, *Arthrobacter atrocyaneus* and *Arthrobacter polychromogenes*

Physical Description: Blue solid

Solubility: Extremely insol. all org. solvs., sol. hot conc. acids

UV: [neutral] $\lambda_{\max}$ 605 (log ϵ 4.33) (N-Methylpyrrolidine)

>>Derivative: N,N'-Di-Ac

CAS Registry Number: 2435-61-2

Molecular Formula: C₁₄H₁₂N₄O₆

Molecular Weight: 332.272

Percentage Composition: C 50.61%; H 3.64%; N 16.86%; O 28.89%

Physical Description: Blue cryst. or violet-red needles

Other Data: Discolours at 304°

References:

Khun, D.A. *et al.*, *Arch. Mikrobiol.*, 1960, **36**, 175; 1965, **51**, 71, (*isol*)

Kuhn, R. *et al.*, *Chem. Ber.*, 1965, **98**, 2139, (*synth, struct, ir, pmr, uv*)