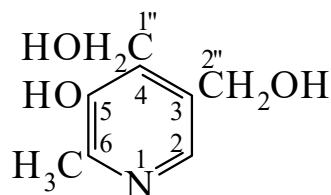




>>Entry Name: Pyridoxine, BAN, INN

ENTRY UNDER REVIEW

Synonym(s): 5-Hydroxy-6-methyl-3,4-pyridinedimethanol, 9CI. Vitamin B<sub>6</sub>, 8CI. 3-Hydroxy-4,5-bis(hydroxymethyl)-2-methylpyridine. Adermin. Pyridoxol. Many other names



CAS Registry Number: 65-23-6

Related CAS Registry Numbers(s): 65-22-5 3131-27-9 8064-77-5 62154-08-9 62602-94-2 63797-00-2 70829-29-7 74536-44-0 79636-52-5

Molecular Formula: C<sub>8</sub>H<sub>11</sub>NO<sub>3</sub>

Molecular Weight: 169.18

Accurate Mass: 169.073894

Percentage Composition: C 56.80%; H 6.55%; N 8.28%; O 28.37%

Biological Source: Found in rice husks, cane molasses, yeast, wheat germ and cod liver oils

Use/Importance: Vitamin, dietary supplement, nutrient

Physical Description: Needles (Me<sub>2</sub>CO)

Melting Point: Mp 160°

pKa Value: pK<sub>a1</sub> 5; pK<sub>a2</sub> 8.96 (25°, 0.15M NaCl)

Calculated Log P Data: Log P -0.7 (calc)

Other Data: Readily sublimes

Hazard & Toxicity: LD<sub>50</sub> (rat, orl) 4000 mg/kg

Aldrich: 30824-2

Sigma: P5669

>>Derivative: Hydrochloride

Synonym(s): Pyridoxine hydrochloride, USAN. Aderoxin. Becilan. Gravidox

CAS Registry Number: 58-56-0

Physical Description: Rhombic cryst. (EtOH/Me<sub>2</sub>CO)

Melting Point: Mp 206-208°

Other Data: Component of Bendectin and Debendox

Hazard & Toxicity: Long-term treatment with large doses associated with development of peripheral neuropathies. Human and exp. reprod. effects. LD<sub>50</sub> (rat, orl) 4000 mg/kg

Aldrich: 11280-1

Fluka: 95180

Sigma: P8666

Supelco: R47-5065

>>Derivative: Picrate

Melting Point: Mp 156°

>>Derivative: O-(7-Theophyllinylethyl)sulfate (1:1)

Synonym(s): Pyridofylline, INN. Atherophylline. Theodoxine

CAS Registry Number: 53403-97-7

Use/Importance: Respiratory stimulant, coronary vasodilator

Physical Description: Cryst. (EtOH)

Melting Point: Mp 144-146°

Hazard & Toxicity: LD<sub>50</sub> (mus, orl) 1600 mg/kg