



>>Entry Name: 3-Amino-1-hydroxy-1,1-propanediphosphonic acid

Synonym(s): (3-Amino-1-hydroxypropylidene)bis[phosphonic acid], 9CI. Pamidronic acid, BAN, INN. Aminomux. Aredia. CGP 23339. APD

CAS Registry Number: 40391-99-9

$\text{H}_2\text{NCH}_2\text{CH}_2\text{C}(\text{OH})[\text{P}(\text{O})(\text{OH})_2]_2$

Molecular Formula: $\text{C}_3\text{H}_{11}\text{NO}_7\text{P}_2$

Molecular Weight: 235.07

Accurate Mass: 235.001078

Percentage Composition: C 15.33%; H 4.72%; N 5.96%; O 47.64%; P 26.35%

Biological Use/Importance: Calcium regulating agent. Suppresses bone resorption. Used in treatment of Paget's disease and malignant hypercalcaemia

Development Status: Marketed drug. Launched 1989. Worldwide 75th best selling prescription drug (as di-Na salt) (\$0.66 bn) (Novartis) (2000, Pharma Business)

Melting Point: Mp 237-238°

Hazard & Toxicity: Exp. nephrotoxic effects

>>Derivative: Di-Na salt

Synonym(s): Pamidronate disodium, USAN

CAS Registry Number: 57248-88-1

Physical Description: Solid + 5H₂O

Hazard & Toxicity: Exp. fetotoxic and other reprod. effects

References:

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