



>>Entry Name: Ibandronic acid, BAN

Synonym(s): [1-Hydroxy-3-(methylpentylamino)propylidene]bisphosphonic acid, 9Cl. Bondronat. BM 210955

CAS Registry Number: 114084-78-5

Related CAS Registry Numbers(s): 160850-32-8

$\text{H}_3\text{C}(\text{CH}_2)_4\text{N}(\text{Me})\text{CH}_2\text{CH}_2\text{C}(\text{OH})[\text{P}(\text{O})(\text{OH})_2]_2$

Molecular Formula: $\text{C}_9\text{H}_{23}\text{NO}_7\text{P}_2$

Molecular Weight: 319.231

Accurate Mass: 319.094978

Percentage Composition: C 33.86%; H 7.26%; N 4.39%; O 35.08%; P 19.41%

Use/Importance: Antiosteoclastic. Inhibits bone resorption

Physical Description: Solid

Development Status: Launched 1996 (Germany) (Boehringer Mannheim)

Melting Point: Mp 84 dec.°

>>Derivative: Na salt

Synonym(s): Ibandronate sodium, USAN

CAS Registry Number: 138844-81-2

Extra CAS Registry Numbers(s): 138926-19-9

References:

Ger. Pat., 1988, *Boehringer Mannheim*, 3 623 397; *CA*, **108**, 186991a, (*synth, pharmacol*)

Muehlbauer, R.C. *et al.*, *J. Bone Min. Res.*, 1991, **6**, 1003, (*pharmacol*)

Rizzoli, R. *et al.*, *Bone*, 1992, **13**, 321, (*pharmacol*)

Pecherstorfer, M. *et al.*, *J. Bone Min. Res.*, 1996, **11**, 587-593, (*ibandronate sodium*)

Dooley, M. *et al.*, *Drugs*, 1999, **57**, 101-108, (*rev*)