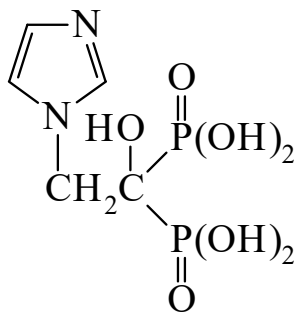




>>Entry Name: **Zoledronic acid**, BAN, INN

Synonym(s): [1-Hydroxy-2-(1*H*-imidazol-1-yl)ethylidene]bisphosphonic acid, 9CI. 1-Hydroxy-2-(1-imidazolyl)-1,1-ethanediphosphonic acid. Zometa. CGP 42446



CAS Registry Number: 118072-93-8

Related CAS Registry Numbers(s): 131654-46-1 157432-58-1 157432-59-2

Molecular Formula: C₅H₁₀N₂O₇P₂

Molecular Weight: 272.091

Accurate Mass: 271.996327

Percentage Composition: C 22.07%; H 3.70%; N 10.30%; O 41.16%; P 22.77%

Use/Importance: Calcium regulator. Bone resorption inhibitor

Physical Description: Cryst. (H₂O)

Melting Point: Mp 239 dec.°

References:

- U.S. Pat.*, 1990, *Ciba-Geigy*, 4 939 130; *CA*, **114**, 62355a, (*synth, pharmacol*)
Green, J.R. *et al.*, *J. Bone Min. Res.*, 1994, **9**, 745, (*pharmacol*)
Berenson, J.R. *et al.*, *Cancer (Philadelphia)*, 2001, **91**, 144-154, (*pharmacol*)
Cheer, S.M. *et al.*, *Drugs*, 2001, **61**, 799-805, (*rev*)
Dunford, J.E. *et al.*, *J. Pharmacol. Exp. Ther.*, 2001, **296**, 235-242, (*pharmacol*)