



>>Entry Name: Olpadronic acid, INN

Synonym(s): [3-(Dimethylamino)-1-hydroxypropylidene]bisphosphonic acid, 9CI. [α -Hydroxy- γ -(*N,N*-dimethylamino)propylidene]diphosphonic acid. Alpdronic acid. Osteomux

CAS Registry Number: 63132-39-8

Related CAS Registry Numbers(s): 121368-58-9

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

Molecular Formula: $\text{C}_5\text{H}_{15}\text{NO}_7\text{P}_2$

Molecular Weight: 263.123

Accurate Mass: 263.032378

Percentage Composition: C 22.82%; H 5.75%; N 5.32%; O 42.56%; P 23.54%

Use/Importance: Calcium regulator

Physical Description: No phys. props. reported

References:

- Ger. Pat.*, 1977, *Henkel and Cie*, 2 534 391; *CA*, **87**, 68491n, (*synth*)
Kabachnik, M.I. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1978, 433, (*synth*)
Worms, K.-H. *et al.*, *Z. Anorg. Allg. Chem.*, 1979, **457**, 214, (*synth*)
Boonekamp, P.M. *et al.*, *Bone Miner.*, 1987, **2**, 29, (*pharmacol*)
Shkol'nikova, L.M. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1987, 1511, (*cryst struct*)
Ferretti, J.L. *et al.*, *Bone, Suppl.* 4, 1995, **16**, 285S, (*pharmacol*)
Roldan, E.J.A. *et al.*, *Expert Opin. Invest. Drugs*, 1998, **7**, 1521-1538, (*rev*)