



Product Information

Product ID E7433

CAS No. 7414-83-7

Chemical Name (1-Hydroxyethylidene)bisphosphonic acid disodium salt

Synonym Disodium dihydrogen (1-hydroxyethylidene)bis- [phosphate], Didronel, Diphos, Etidron

Formula $C_2H_6Na_2O_7P_2$

Formula Wt. 249.99

Melting Point $>300^\circ C$

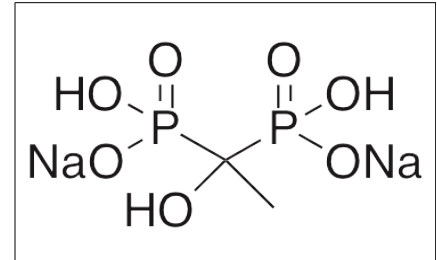
Purity $\geq 98\%$

Solubility Soluble in water
(26mg/mL).

Store Temp Ambient

Ship Temp Ambient

Description Etidronate is a bisphosphonate and chelating agent that exhibits anti-osteoporotic, anti-resorptive, and anti-inflammatory activities. Etidronate is clinically used to treat osteoporosis, inhibiting bone calcification and resorption. Etidronate is also commercially used to prevent Ca^{2+} and mineral deposition. In macrophages, etidronate inhibits production of COX-2 and prostaglandin E2 (PGE2) and decreases levels of IL-6, TNF- α , and IL-1B.



Bulk quantities available upon request

Product ID	Size
E7433	250mg
E7433	1 g
E7433	5 g

References Asano S, Suzuki A, Itoh M. Etidronate for treatment of osteoporosis. *Nihon Rinsho*. 2009 May;67(5):938-42. PMID: 19432113.

Lomashvili KA, Monier-Faugere MC, Wang X, et al. Effect of bisphosphonates on vascular calcification and bone metabolism in experimental renal failure. *Kidney Int*. 2009 Mar;75(6):617-25. PMID: 19129793.

Suzuki Y, Nishiyama T, Hasuda K, et al. Effect of etidronate on COX-2 expression and PGE(2) production in macrophage-like RAW 264.7 cells stimulated by titanium particles. *J Orthop Sci*. 2007 Nov;12(6):568-77. PMID: 18040640.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.