



Omeprazole PRODUCT DATA SHEET

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Product Name: Omeprazole
Product Number: O011
CAS Number: 73590-58-6
Molecular Formula: $C_{17}H_{19}N_3O_3S$
Molecular Weight: 345.42
Form: Powder
Solubility: Water: 0.823 mg/mL
Storage Conditions: 2-8°C

Description: Omeprazole is an antacid compound which inhibits H^+K^+ ATPase and Carbonic Anhydrase; both of which are responsible for gastric acid secretion. Omeprazole is sparingly soluble in water (0.823 mg/mL).

References: Puscas, Ioan, et al. "Omeprazole Has a Dual Mechanism of Action: It Inhibits Both H^+K^+ ATPase and Gastric Mucosa Carbonic Anhydrase Enzyme in Humans (In Vitro and In Vivo Experiments)." *The Journal of Pharmacology and Experimental Therapeutics* 290.2 (1999): 530-34. Web. 11 Mar. 2013.

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