

**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.