

MP Biomedicals, LLC

29525 Fountain Parkway Solon, Ohio 44139

Telephone: 440/337-1200 Toll Free: 800/854-0530 Fax: 440/337-1180

mailto: biotech@mpbio.com web: http://www.mpbio.com

TECHNICAL INFORMATION

Catalog Number: 103106

Ethyl-m-Aminobenzoate, Methanesulfonate Salt

Structure:

Molecular Formula: C9H11NO2·CH4O3S

Molecular Weight: 261.3

CAS #: 886-86-2

Synonyms: Tricaine methanesulfonate salt; 3-Aminobenzoic acid ethyl ester methanesulfonate salt; Finquel; Metacain;

Metacaine; Tricaine mesylate

Physical Description: White powder

Solubility: Soluble in water (1 g/ml). Aqueous solutions are stable to boiling. Anesthetic solutions should be made immediately

prior to use, since they degrade upon standing.

Note: Keep away from sunlight. Sunlight will cause degradation.4

Description: A derivative of an isomer of benzocaine. Mainly used as an anesthetic in fish, sharks, frogs, toads, salamanders, newts and worms. A Concentrations generally used in fish are 25 to 300 mg/l water, with larger fish requiring higher concentrations. Bufo marimus frogs require approximately 1000 mg/l, while Rana pipens, R. temporaria and Xenopus leavis require approximately 300 mg/l for adequate anesthesia. Pharmacology discussed by Jolly, et al.

References:

- Merck Index, 12th Ed., No. 9751
- Billeter, et al., U.S. pat. 1,678,317, issued to Sandoz (1928).
- Ger. pat. 454,698 (1927).
- Jolly, D.W., et al., Vet. Rec., v. 91, 424 (1972).
- Reynolds, J.E.F., Martindale, The Extra Pharmacopeia, 30th Ed., p. 1018, The Pharmaceutical Press: London (1993).
- Smith, D.G., Am. J. Physiol., v. 226:2, 367 (1974).