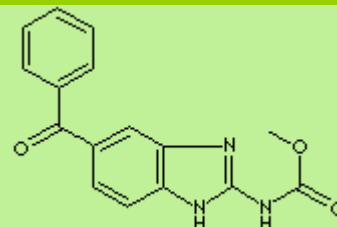


MEBENDAZOLE

PRODUCT IDENTIFICATION

CAS NO. 31431-39-7
EINECS NO. 250-635-4
FORMULA $C_{16}H_{13}N_3O_3$
MOL WT. 295.30



H.S. CODE
TOXICITY

SYNONYMS Methyl 5-benzoyl benzimidazole-2-carbamate;
(5-benzoyl-1H-benzimidazol-2-yl)-carbamic methyl ester; 5-benzoyl-2-benzimidazolylcarbamic acid methyl ester; Methyl 5-benzoyl-2-benzimidazolecarbamate;

DERIVATION

CLASSIFICATION

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE white to yellowish powder

MELTING POINT

BOILING POINT

SPECIFIC GRAVITY

SOLUBILITY IN WATER

pH

VAPOR DENSITY

REFRACTIVE INDEX

NFPA RATINGS

AUTOIGNITION

FLASH POINT

STABILITY Stable under ordinary conditions.

APPLICATIONS

Mebendazole is a common benzimidazole anthelmintic used in the treatment of ascariasis, uncinariasis, oxyuriasis, trichuriasis and more than one worm infection at a time. It inhibits glucose uptake in the parasite, resulting in immobilization and death. It is a white to slightly yellow powder; insoluble in water, acid solutions, alcohol, ether and chloroform; freely soluble in formic acid. Chemical designation is 5-Benzoyl-2-benzimidazolecarbamic acid methyl ester.

Anthelmintic (also spelled anthelminthic) is a chemical substance used to expel or destroy tapeworms in domestic animals. Some common anthelmintic active ingredients classified by chemical structure include;

- Benzimidazoles
 - Albendazole (CAS #: 54965-21-8)
 - Fenbendazole (CAS #: 43210-67-9)
 - Mebendazole (CAS #: 31431-39-7)
 - Oxfendazole (CAS #: 53716-50-0)
 - Oxibendazole (CAS #: 20559-55-1)
 - Triclabendazole (CAS #: 68786-66-3)
- Diphenylsulfides
 - Bithionol (CAS #: 97-18-7)

- Febantel (CAS #: 58306-30-2)
- Hexahydropyrazines
 - Diethylcarbamazine (CAS #: 90-89-1)
 - Piperazine (CAS #: 110-85-0)
 - Praziquantel (CAS #: 55268-74-1)
- Imidazothiazoles
 - Levamisole (CAS #: 14769-73-4)
 - Tetramisol (CAS #: 5036-02-2)
- Macrocylic Lactones
 - Abamectin (CAS #: 71751-41-2)
 - Doramectin (CAS #: 117704-25-3)
 - Eprinomectin (CAS #: 123997-26-2)
 - Eprinomectin B_{1a} (CAS#: 133305-88-1)
 - Eprinomectin B_{1b} (CAS #: 133305-89-2)
 - Ivermectin (CAS #: 70288-86-7)
 - Ivermectin B_{1a} (CAS #: 70161-11-4)
 - Ivermectin B_{1b} (CAS #: 70209-81-3)
 - Moxidectin (CAS #: 113507-06-5)
- Salicylanilide
 - Closantel (CAS #: 57808-65-8)
 - Niclosamide Base (CAS #: 50-65-7)
 - Niclosamide Monohydrate (CAS #: 7336-56-2)
 - Niclosamide Ethanolamine salt (CAS #: 1420-04-8)
 - Niclosamide Piperazine salt (CAS #: 34892-17-6)
 - Oxyclozanide (CAS #: 2277-92-1)
 - Rafoxanide (CAS #: 22662-39-1)
- Tetrahydropyrimidines
 - Morantel (CAS #: 20574-50-9)
 - Pyrantel Pamoate (CAS #: 22204-24-6)
- Others
 - Clorsulon (CAS #: 60200-06-8)
 - Nitroxinil (CAS #: 1689-89-0)

SALES SPECIFICATION

APPEARANCE	white to yellowish powder
ASSAY	98.0 - 102.0%
IDENTIFICATION	Complies Test A,B
HEAVY METALS	20ppm max
SULFATED ASH	0.1% max
LOSS ON DRYING	0.5% max
CHLORIDE	0.1% max

TRANSPORTATION

PACKING	25kgs in drum
HAZARD CLASS	6.1 (Packing Group: III)
UN NO.	2811

OTHER INFORMATION

Hazard Symbols: XN, Risk Phrases: 22, Safety Phrases: 36