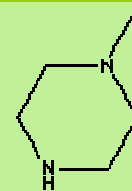


N-ETHYLPIPERAZINE

PRODUCT IDENTIFICATION

CAS NO.	5308-25-8
EINECS NO.	226-166-6
FORMULA	C ₆ H ₁₄ N ₂
MOL WT.	114.19
H.S. CODE	
TOXICITY	Oral rat LD50: 2158 mg/kg
SYNONYMS	1-Ethylpiperazine; 1-éthylpipérazine (French); 1-Ethylpiperazin (German); 1-Etilpiperazina (Spanish);
DERIVATION	
CLASSIFICATION	



PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	clear liquid
MELTING POINT	-60 C
BOILING POINT	157 C
SPECIFIC GRAVITY	0.895
SOLUBILITY IN WATER	Miscible
pH	
VAPOR DENSITY	
AUTOIGNITION	320 C
NFPA RATINGS	Health: 3 ; Flammability: 2 ; Reactivity: 0
REFRACTIVE INDEX	
FLASH POINT	47 C
STABILITY	Stable under ordinary conditions

GENERAL DESCRIPTION & APPLICATIONS

Piperazine is a heterocyclic compound containing four carbon atoms and two of nitrogen at 1,4 position (als called 1,4-hexahydropyrazine). It is a deliquescent crystalline compound melting at 105 C; soluble in water, alcohol, glycerol, and glycols. It is used as a main ingredient of anthelmintics used to treat intestinal roundworms (ascariasis) infection in human and poultry and to treat pinworms (enterobiasis; oxyuriasis) by altering cell membrane permeability and causing hyperpolarization of the membrane. Piperazine is a main moiety in psychoactive drugs. Certain piperazine derivatives are suspected of ecstasy substitutes. Benzylpiperazine is banned in many countries. Benzylpiperazine has been used as a anthelmintic (antiparasitic effect). Nitrogen in piperazine ring plays an important role in biological research and drug manufacturing industry including the preparation of anthelmintic, antiallergenic, antibacterial, antihistamic, antiemetic and antimigraine agents. The piperazine ring and piperazine derivatives are important cyclic components in industrial field as raw materials for hardener of epoxy resins, corrosion inhibitors, insecticides, accelerators for rubber, urethane catalysts and antioxidants. N-Ethylpiperazine is used in the synthesis of drugs like enrofloxacin, dyes, agrochemicals and other chemical compounds.

SALES SPECIFICATION

APPEARANCE	clear liquid
PURITY	99.5% min
WATER	0.5% max
INDIVIDUAL IMPURITY	0.5% max

TRANSPORTATION

PACKING	180kgs in a drum
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HAZARD CLASS	8 (Packing Group: II)
UN NO.	2734
OTHER INFORMATION	
Hazard Symbols: C, Risk Phrases:10- 34, Safety Phrases: 23-26-37	
PRICE	
Open	