PIPERAZINE

PRODUCT IN FOCUS

EXSYN®
ESSENTIAL CHEMISTRY

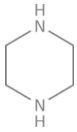
Piperazine

INTRODUCTION

Piperazine is an organic compound that consists of a six-membered ring containing two nitrogen atoms at opposite positions in the ring. Piperazine exists as small alkaline deliquescent crystals with a saline taste. Piperazine is supplied as (anhydrous) Piperazine 99%.

Manufacture

Piperazine is generally prepared by treating ammonia with ethylene diamine, amino ethyl ethylene diamine, monoethanol amine or diethanol amine; or hydrogenation of N-(amino ethyl) ethanol amine.

Synonyms	Diethylenediamine 1,4-Diazacyclohexane Hexahydropyrazine Piperazidine
CAS no.	110-85-0
EINECS no.	203-808-3
Molecular formula	$C_4H_{10}N_2$
Molecular weight	86.14
Structure	

Applications

- Used as a raw material for the manufacture of quinolone drugs like Ciprofloxacin and Norfloxacin.
- Also used in manufacture of other drugs like Anthelmintics, Sedatives, Antihistamines, Antifilarials, Tranquilizers, and Analgesics.
- As an intermediate in the preparation of:
  - Hydroxyethyl piperazine
  - N,N'-dimethyl piperazine
  - N-methyl piperazine
- Used for speciality chemicals and polymeric products like corrosion inhibitors, photographic chemicals, wetting agents, polyamides, rubber auxiliaries and hardener for epoxy resins and Gas sweetening.

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SPECIFICATIONS

Test	Unit	Specification
Appearance	-	White to off-white flakes with hygroscopic nature
Solubility	-	Freely soluble in water and in ethanol, practically insoluble in ether
Water content (by KF)	% w/w	NMT 1.0
Purity (by GC)	%	NLT 99.0

STORAGE
Store in a dry and well-ventilated area. Ambient temperatures.

PACKING
25 kg UN approved drums.

REACH status
Not registered yet.

No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.