

Triethylenediamine CAS280-57-9 1,4-diazabicyclo[2.2.2]octane

Overview:

Triethylenediamine, also known as triethylenediamine. White or light yellow crystals. Ammonia smell, this product is an organic synthesis intermediate, synthetic light-stabilizing material, widely used in polyurethane foam, elastomer and plastic products and molding process. It is also a polymer initiator and can be used as an ethylene polymerization catalyst and an ethylene oxide polymerization catalyst. Its derivatives can be used as corrosion inhibitors and emulsifiers.

Chinese name triethylenediamine

English name TRIETHYLENEDIAMINE

Alias 1,4-diazabicyclo[2.2.2]octane, triethylenediamine, triethylenediamine

CAS Registry Number 280-57-9

Water soluble

Appearance White crystal

Triethylenediamine DABCO Jeffcat TD-100 PC CAT TD100 Addocat 104 TEDA

Basic Information:

Abbreviations: TEDA, DABCO

English name: TRIETHYLENEDIAMINE

Chemical formula: C₆H₁₂N₂

Physical and chemical properties

The normal state of TEDA is colorless or white crystals. It is easy to absorb moisture and deliquesce and agglomerate when exposed to air. It is alkaline and can absorb CO₂ in the air and yellow. Easily soluble in acetone, benzene and ethanol. Pure TEDA is very toxic. Inhalation of saturated TEDA vapor can cause slight mucosal irritation, damage to the eyes, and skin irritation can cause allergies.

Relative density (25°C): about 1.14

Pure product melting point: 158-159°C

Flash point: 60°C

Boiling point: 174°C, easy to sublimate, slightly ammonia smell

Vapor pressure: about 67Pa at 21°C, 533Pa at 50°C, 7.7kPa at 100°C

Production method:

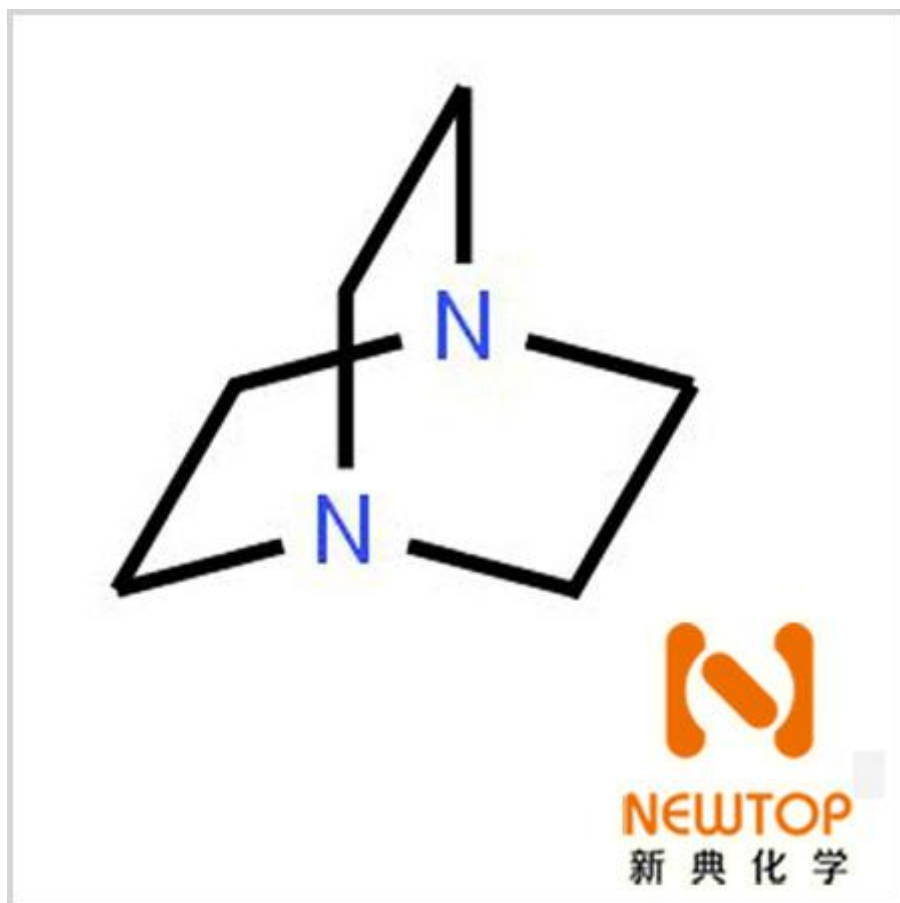
There are several methods for synthesizing TEDA at home and abroad. The general process is to pass the aqueous solution of amine or alcohol amine raw material through a reactor filled with catalytic zeolite at a certain flow rate, react at 320-400°C, 0.3MPa, and purify To get TEMA.

Piperazine and its derivatives are used to prepare TEDA. The efficiency of the product is high and the process is relatively mature to achieve industrialization. However, the production of piperazine and its derivatives in my country is small and the price is high. The production of TEDA using ethanolamine as a raw material has sufficient supply, simple operation, low cost, and industrialization in Japan. It is feasible in China.

Features and uses

Triethylenediamine is a tertiary amine compound with a double heterocyclic structure. It is mainly used as a gel catalyst for polyurethane foams. It is widely used in soft, semi-rigid, rigid polyurethane foams and elastomers. It can be used for epoxy resin curing catalyst, ethylene polymerization catalyst, propylene catalyst, acrylonitrile polymerization catalyst and ethylene oxide polymerization catalyst.

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Storage and transportation:

It should be sealed and stored in a dry, cool and ventilated warehouse.

package:

200KG/drum Storage: It is recommended to store in a dry and cool area with proper ventilation. After the original packaging, please fasten the packaging cover as soon as possible to prevent the water and other substances from mixing into the product and affecting its performance. Do not breathe dust, avoid skin and mucous membrane contact. Smoking, eating and drinking are prohibited in the workplace. After work, shower and change clothes. Store contaminated clothing separately and wash it before reuse. Maintain good hygiene habits.

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FAQ

Q1: May I get one sample before placing order?

Re: Yes, Sample are available. For normal products, samples are for free and you just need to bear the freight; For those high value products, you just need to freight and certain product cost. When we both cooperate for some times or when you are our VIP customer, free sample will be offered when you need.

Q2: Which payment is available for your company?

Re: T/T, L/C ,You can choose the one which is convenient for you.

Q3: How and when can I get my goods after payment?

Re: For small quantity products, they will be delivered to you by international courier(DHL, FedEx, TNT etc.) or by air. Usually it will cost 3-5days that you can get the goods after delivery.For large quantity products, shipping by sea is worthwhile.It will cost days to weeks to come to your destination port, which depends on where the port is.

Q4: Is there any possible to use my appointed label or package?

Re: Yes. If needed, we'd like to use label or package according to your requirement.

Q5: How can you guarantee the goods you offer is qualified?

Re: We always believe honesty and responsibility are basis of one company, so whatever products we provide for you all are qualified.