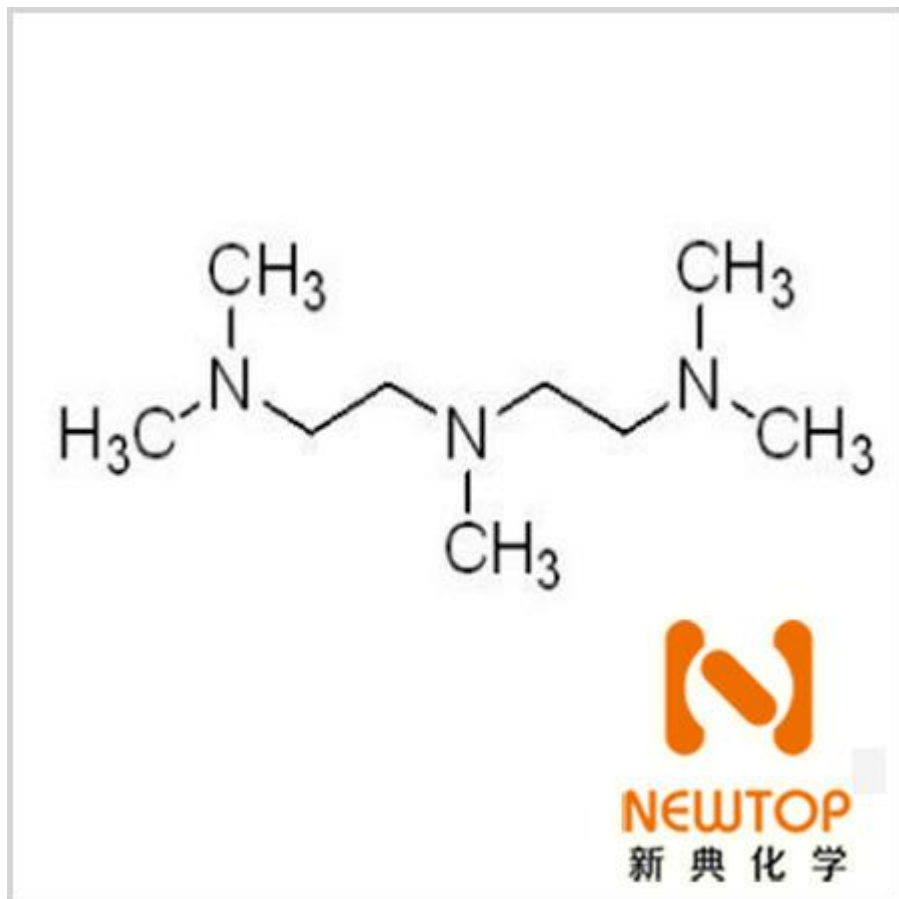


## Pentamethyldiethylenetriamine CAS3030-47-5 Jeffcat PMDETA

### Overview:

Pentamethyldiethylenetriamine is a chemical substance with the molecular formula C<sub>9</sub>H<sub>23</sub>N<sub>3</sub>. It is a high-efficiency catalyst for polyurethane soft foam. It is used in the formulation of soft foam products and can be used as an auxiliary catalyst for hard foam to improve the fluidity of PU foam in large-capacity refrigerators.



### Chinese name N,N,N,N,N-pentamethyldiethylenetriamine

English name N,N,N',N'',N'''-Pentamethyldiethylenetriamine

Alias 1,1,4,7,7-Pentamethyldiethylenetriamine, pentamethyldiethylenetriamine, CAS 3030-47-5, Polycat 5, Niox C-5, Jeffcat PMDETA, Lupragen N301, Tegoamin PMDETA, PC CAT PMDETA, Addocat PV, Toyocat DT, Polycat 5 catalyst, hard foam catalyst PC5

Chemical formula C<sub>9</sub>H<sub>23</sub>N<sub>3</sub>

Molecular weight 173.3

CAS Registry Number 3030-47-5

Melting point -20°C

Boiling point 198°C

Water soluble, soluble in water, ether and alcohol solvents

Appearance Colorless or light yellow transparent liquid

Flash point 53°C

MDL number: MFCD00014876

Refractive index: 1.442(lit.)

### Physical properties of pentamethyldiethylene triamine:

English name: N,N,N',N'',N'' -Pentamethyldiethylenetriamine

Molecular formula: C<sub>9</sub>H<sub>23</sub>N<sub>3</sub>

Molecular weight: 173.3

Physical and chemical properties

Pentamethyldiethylene triamine is a colorless to pale yellow clear liquid, and is easily soluble in water.

Purity: 98.0%

Viscosity (25°C): 2mPa.s

Relative density (20°C): 0.8302-0.8306

Flash point (closed loop): around 72°C

Flash point (PMCC): 83.3°C

Boiling range: 196-201°C or 70-80°C (1100Pa)

Vapor pressure (21°C): 0.29\*133pa

Freezing point: <-20°C

### Method

Pentamethyldiethylenetriamine is generally obtained by diethylenetriamine as the raw material for N-methylation. The methylation methods include formic acid/formaldehyde method and formaldehyde hydrogenation method.

### Features and uses:

Pentamethyldiethylene triamine is a highly active and strong foaming polyurethane catalyst, which can also be used to balance the overall foaming and gel reaction. It is widely used in various polyurethane rigid foams, including polyisocyanuric acid sheet rigid foams, and can also improve foam fluidity, so it can improve product production technology and product quality. Pentamethyldiethylene triamine can also be used alone as a catalyst for polyurethane foam formulations, or in combination with other catalysts such as DNCHA. When used alone as a hard foam catalyst, the dosage range is 1.0-2.0 parts by mass per 100 parts by mass of polyol. In addition to being used in rigid foam formulations, pentamethyldiethylenetriamine can also be used in the production of polyurethane soft block foams and molded foams.

### Storage and transportation:

Should be sealed and stored in a dry, cool and ventilated warehouse

### package:

180KG/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.