

## 1,8-Diazabicycloundec-7-ene CAS 6674-22-2 DBU

### Overview:

1,8-Diazabicycloundec-7-ene is a colorless to pale yellow transparent oily liquid with relatively low volatility, almost no odor, and alkaline. It is easy to change color when exposed to light, and is hygroscopic and corrosive.

Product Name: 1,8-Diazabicyclo[5.4.0]undec-7-ene (DBU)

Product English name: 1,8-Diazabicyclo[5.4.0]undec-7-ene

Packaging price: 200kg/barrel

Purity specification: 98%

Product Category: Pharmaceutical raw materials

6674-22-2 DBU azabiheterocycle diazabicyclo Polycat DBU Lupragen N700 PC CAT DBU

Chinese name: 1,8-diazacycloundecene, diazabicyclo, DBU

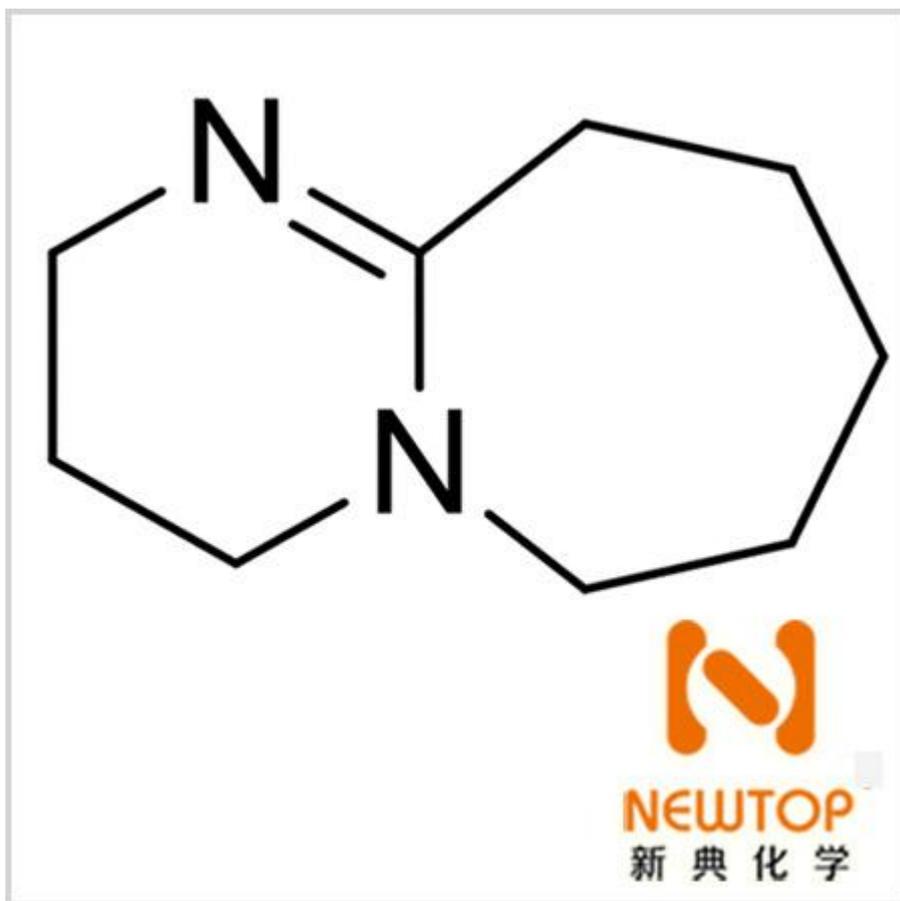
English name: 1,8-Diazabicyclo (5.4.0) undec-7-ene

Alias: 1,8-diazabicycloundec-7-ene, CAS 6674-22-2, catalyst DBU, epoxy accelerator DBU, polyurethane catalyst DBU, azabiheterocycle, diazabicyclo, Polycat DBU, Lupragen N700, PC CAT DBU

Molecular formula: C<sub>9</sub>H<sub>16</sub>N<sub>2</sub>

Relative molecular mass: 152.2

CAS Number: 6674-22-2



### Physical and chemical properties:

1,8-Diazabicycloundec-7-ene is a colorless to pale yellow transparent oily liquid with relatively low volatility, almost no odor, and alkaline. It is easy to change color when exposed to light, and is hygroscopic and corrosive.

Relative density: 1.04~1.07

Viscosity (25°C): 14mPa.s

Water-soluble: soluble in water

Flash point (TCC): >96°C

**Features and uses:**

1,8-Diazabicycloundec-7-ene is used as a catalyst in the polyurethane industry. It is a highly active low-odor gel catalyst, mainly used in occasions where strong gel catalysis is required, including Formulas containing alicyclic isocyanates or aliphatic isocyanates, because they are not as active as aromatic isocyanates, so a strong catalyst is required;

The activity of 1,8-diazabicycloundec-7-ene catalyst is obviously enhanced with the increase of temperature. For example, the catalytic rate constant of DBU for isocyanate-alcohol and isocyanate-water reaction at 70°C is 25°C. 67 times and 35 times, and the catalytic activity of the commonly used bicyclic tertiary amine catalyst triethylenediamine increased to 5 times and 6 times;

The 1,8-diazabicycloundec-7-ene catalyst can be used in the formulations of integral skin foam, microcellular elastomer, and hard foam.

The main use of DBU is as an excellent organic base deacidifier for drug synthesis. It can replace organic bases such as triethylamine, N,N-xylidine, pyridine and quinoline, and is widely used in organic synthesis and semi-synthetic antibiotics. It can obtain satisfactory results in the dehydrohalogenation reaction. It is widely used in the production of cephalosporin semi-synthetic antibiotic drugs, such as ammonia and dichloroethane in the presence of DBU to generate piperazine. It can also be used as an epoxy resin hardener, rust inhibitor, can be formulated with high corrosion inhibitors, and used as a catalyst for other chemical reactions.

Application of DBU on epoxy resin DBU hardly reacts with epoxy resin in the range of room temperature to 40°C, and the epoxy resin can be gelled within 15min when the temperature is increased to 100°C. In epoxy resin, DBU is mainly used as a curing accelerator for epoxy resin for encapsulation of integrated circuits and electronic components. When used in the form of DBU salt, the package is heated and the DBU dissociates out to promote curing.

The combination of DBU and novolac is a light yellow solid, which changes the shortcomings of DBU's easy hydrolysis in a humid environment. Therefore, the epoxy molding compound for IC packaging composed of it has good resistance to humidity and heat and high pressure cooking performance.

**Storage and transportation:**

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.