

U-CAT SA 603 catalyst CAS122987-43-8 Sanyo Japan

U-CAT SA 603 is a thermal latent alkali generator. It is a p-toluene sulfonate of 1,5-diazabicyclic [4.3.0] non-5-ene (DBN). DBN is a strong base commonly used in organic chemistry. However, it is not very stable at room temperature and will break down, releasing ammonia. U-CAT SA 603 is more stable than DBN and does not release ammonia until it is heated to about 160 degrees Celsius. This makes it a safer and more convenient alternative to DBN for use in organic synthesis.



Product Details

U-CAT SA 603 is a white, odorless powder. It is soluble in water and most organic solvents. It is stable at room temperature and can be stored for a long time.

Physical and chemical properties

CAS Number: 122987-43-8

Molecular formula: C₁₃H₂₁N₅O₃S

Molecular weight: 297.37 g/mol

Density: 1.28 g/cm³

Melting point: 165-167 degrees Celsius

Boiling point: 265-267 degrees Celsius

Solubility: Easily soluble in water, ethanol, chloroform

Use

U-CAT SA 603 is used as a catalyst in a variety of organic syntheses. It is particularly suitable for reactions that require a strong base, such as the Diels-Alder reaction and the Suzuki-Miyaura reaction.

Pros

- More stable than DBN
- No ammonia release
- Easy to use

Precautions

- U-CAT SA 603 is a strong base that can cause skin and eye irritation.
- It is important to wear gloves and goggles when handling U-CAT SA 603.
- U-CAT SA 603 is flammable and should be stored in a cool, dry place.

The following is a list of the physical and chemical properties of U-CAT SA 603:

Properties	value
CAS number	43-122987-8
Molecular Formula	C ₁₃ H ₂₁ N ₅ O ₃ S
Molecular weight	297.37 g/mole
Density	1.28 g/cm ³
Melting point	165-167 degrees Celsius

Boiling point	265-267C
Solubility	Soluble in water, ethanol, and chloroform

Shelf life:

Remain unopened for two years

Storage and Transportation:

Should be sealed, stored in a dry cool ventilated warehouse

Packing:

200KG/ barrel 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 moisture and other substances from mixing and affecting the product performance. Do not inhale dust and avoid contact between skin and mucous membrane. Smoking, eating and drinking are prohibited in the workplace. Shower and change after work. Store contaminated clothes separately and use them after washing. Practice good hygiene.

Technical support and business contacts E-mail: info@newtopchem.com

