

Fentacat 41 catalyst CAS112-03-5 Solvay

Fentacat 41 is a polyurethane catalyst that can be used in a variety of applications, including soft, hard, semi-hard, and CASE foams. It is a low-odor, reaction-type, and low-emission catalyst made from fatty amines.

Product Overview

Fentacat 41 is a clear, colorless liquid.

It has a mild odor.

Soluble in water and organic solvents.

It is non-corrosive and non-toxic.

Physical and chemical properties

Properties	value
CAS number	The 112-03-5
Alias	Triethanolamine oleate

Molecular formula	C18H37NO3
Molecular weight	317.46 g/mole
Density	0.93 g/cm ³
Melting point	- 10 °C
Boiling point	230 °C
Flash point	140 °C
Spontaneous combustion temperature	300 °C
Solubility in water	Miscibility
Solubility in organic solvents	miscibility
Specific gravity	0.93

Refractive Index	1.457
Steam pressure	0.001 mm Hg at 20 °C
Henry's law constant	1.2×10^{-6} atm-m ³ /mol
Partition coefficient (octanol/water)	1.1



Applications

Fentacat 41 is used in a variety of applications, including:

Newtop Chemical Materials (Shanghai) Co.,Ltd.

Address: Rm1104 ,No. 258, West SongXing Road, BaoShan District, Shanghai, China.

Mobile Phone: +0086-183 0190 3151 E-mail: info@newtopchem.com www.newtopchem.com

- Soft foams: Fentacat 41 is used in soft foams to improve foaming rates, foam strength, and water resistance of the foam.
- Hard foams: Fentacat 41 is used in hard foams to improve foaming rate, foam strength, and fire resistance of the foam.
- Semi-rigid foams: Fentacat 41 is used in semi-rigid foams to improve foaming rate, foam strength and foam flexibility.
- CASE foam: Fentacat 41 is used in CASE foam to improve foaming rate, foam strength, and water resistance of foam.

advantage

Fentacat 41 has a number of advantages over other polyurethane catalysts, including:

- It is a low-odor catalyst.
- It is a reactive catalyst.
- It is a low emission catalyst.
- It is made from fatty amines.

Method of manufacture

Fentacat 41 is prepared by reacting triethanolamine with oleic acid.

Precautions for use

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Fentacat 41 is a flammable liquid. It should be stored in a cool, dry place away from heat and fire sources. It should be handled with care and personal protective equipment should be worn when handling it.

Additional information

Fentacat 41 is a registered trademark of Solvay.

Shelf Life:

Remain unopened for two years

Storage and Transportation:

Should be sealed, stored in a dry cool ventilated warehouse

Packaging:

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