

NAUGARD™ DSTDP thioester

Antioxidant Thioester

Description

NAUGARD™ DSTDP thioester is an FDA sanctioned* antioxidant for use in polyolefins and other polymeric systems. Esters of thiodipropionic acid are widely used as auxiliary stabilizers for polypropylene, polyethylene, and synthetic rubbers to promote long-term ambient aging properties.

*21 CFR 181.24 Limit of addition to food 0.005%

Chemical Name

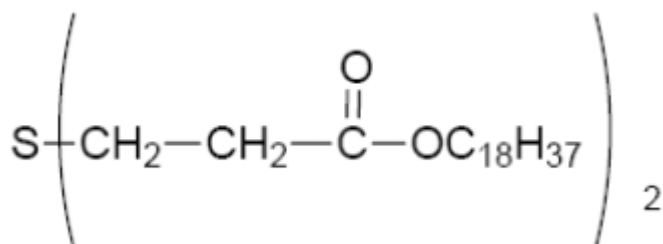
Distearyl Thiodipropionate $S(CH_2CH_2COOC_{18}H_{37})_2$

CAS-Number:

693-36-7

Formula

NAUGARD™ DSTDP thioester



Typical physical properties of NAUGARD™ DSTDP thioester

Appearance	White powder
Set Point	67°C
Molecular weight [g/mol]	683
Odor	Mild Fatty

Solubility

Soluble	Very Slightly Soluble
Heptane	Alcohol
Toluene	Ethyl Acetate

Volatility in Air**Heating Rate = 10°C/min**

Weight Loss %	Temperature (°C)
0	220
10	294
20	316
30	330
40	346
50	359
60	368
70	374
80	375

Product Features

In polypropylene **NAUGARD™ DSTDP thioester** offers in conjunction with primary antioxidants such as **ANOX™ PP18 stabilizer** or **ANOX™ 20 stabilizer**:

- Excellent color
- Excellent processing
- Excellent aging stability

Storage and Handling

This product may be stored for at least one (1) year in sealed containers. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat could decrease product shelf life. Containers should be kept sealed when not in use. Open drums should be used as soon as possible (within a maximum of 4 months) to avoid hydrolysis, especially during humid weather.

For additional handling and toxicological information consult the SI Group Material Safety Data Sheet.