

NAUGARD™ DLTDP thioester

Antioxidant Thioester

Description

NAUGARD™ DLTDP 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

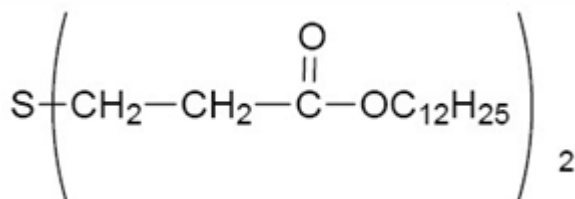
Dilauryl Thiodipropionate $S(CH_2CH_2COOC_{12}H_{25})_2$

CAS-Number:

123-28-4

Formula

NAUGARD™ DLTDP thioester



Typical physical properties of NAUGARD™ DLTDP thioester

Appearance	White powder or beads
Melting Point	39 - 41°C
Molecular weight [g/mol]	515
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	158
10	274
20	290
30	300
40	308
50	316
60	323
70	332
80	339

Product Features

When used 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.