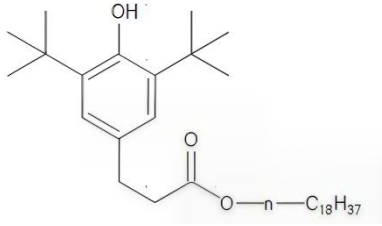


Antioxidant 1076

1076 is a stereoregular hindered phenolic antioxidant suitable for use in a wide range of organic compounds—such as plastics, synthetic fibers, elastomers, and adhesives—to protect these materials from thermal oxidative degradation. 1076 is characterized by its odorless nature, excellent compatibility with most polymers, and low volatility. It can be blended with other additives, such as auxiliary antioxidants (thiourethane, phosphite esters), photostabilizers, and antistatic agents. The recommended dosage of 1076 ranges from 0.05% to 1.0%; the exact dosage should be determined based on the customer's specific testing requirements.

1. Product physicochemical properties

1.1 Product basic information

Project	Content
Chemical name	B-(3,5-di-tert-butyl-4-hydroxyphenyl) propionic acid octadecanol ester
CAS number	2082-79-3
Molecular structure	
Formula weight	531

1.2 Technical parameter

Item	Parameter
Appearance	White granules or powder

Item	Parameter
Melting range °C	50-55
Solution clarity	Limpid
Transmittance,% at 425 nm	≥97.0
Transmittance,% at 500 nm	≥98.0
Volatile matter %	≤0.2
Ash content %	≤0.1
Main content (%)	≥98.0

1.3 Solubility (20 ° C, g/100 mL solvent)

Dissolvent	Dissolved load
Benzene	57g
N-hexane	32g
Chloroform	57g
Acetone	19g
Water	<0.1g
Methylbenzene	50g
Alcohol	2g
Ethyl acetate	38g
Cyclohexane	40g
Methanol	0.6g

2. Operation and safety

1. This product is a general-purpose plastic additive; it can be handled in accordance with standard chemical raw material operating procedures.
2. Avoid generating large amounts of dust; ensure the workshop is well-ventilated and kept away from open flames and high-temperature heat sources;
3. Personal protection: Wear a dust-proof mask and nitrile protective gloves;
4. For complete information on first aid, leakage, storage, and transportation, and hazard details, please refer to the accompanying safety data sheet (SDS).

3. Storage and transportation

1. Store in a cool, dry, and well-ventilated warehouse; avoid direct sunlight, exposure to rain, or moisture.
2. Store separately from strong oxidizing agents, strong acids, and strong alkalis;
3. The original factory-sealed product has a shelf life of 24 months at room temperature; once opened, it should be used as soon as possible to prevent moisture absorption and clumping.