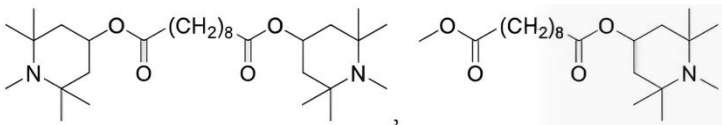


Light stabilizer UV-292

The liquid small-molecule methylation blocked amine exhibits excellent solubility, easy dispersion without precipitation, and low volatility that prevents streaking; it is compatible with solvent-based, water-based, and UV-curing systems. Its moderate alkalinity ensures stable compatibility with a wide range of pigments and fillers without any antagonistic effects; it effectively scavenges photo-aged free radicals, providing long-term inhibition against coating dimming, cracking, fading, and powdering; it is suitable for coatings used in the acrylic, polyurethane, alkyd, wood, and automotive industries, where its pairing with benzotriazole-based UV absorbers yields significantly enhanced weather resistance.

1. Product physicochemical properties

1.1 Product basic information

Project	Content
Chemical name	Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
CAS number	41556-26-7;82919-37-7
Molecular structure	
Formula weight	Bis-PM Sebacate: 508.78; Methyl-PM Sebacate: 369.54

1.2 Technical parameter

Test item	Parameter
Appearance	Colorless to pale yellow transparent liquid

Test item	Parameter
Ash %	≤0.1
Transmittance,% at 425 nm	≥97.0
Transmittance,% at 500 nm	≥99.0
Drying weight reduction %	≤0.5
Content %	≥96.0
APHA	≤30

1.3 TGA thermogravimetric analysis data

Temperature	Thermal weight loss ratio
226℃	1%
250℃	3%
277℃	10%

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

Solvent	Solubility
Dichloromethane	>66.33g
Chloroform	>73.95g
Methylbenzene	>43.35g
Acetone	>39.45g
Ethyl acetate	>44.85g
Alcohol	>39.45g
Methanol	>39.60g

Solvent	Solubility
N-hexane Pure water	>32.97g < 0.01g

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. The workshop shall be well-ventilated and kept away from open flames and high-temperature heat sources;
3. Personal protection: Wear a dust-proof mask and nitrile-resistant gloves;
4. For complete information on first aid, leakage, storage, and transportation, and hazards, 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, and moisture.
2. Store separately from strong oxidizing agents, strong acids, and strong alkalis;
3. The original factory seal's shelf life at room temperature is 24 months; once opened, use it as soon as possible and avoid exposure to moisture.