

LOWILITE™ 94 UV stabilizer

Hindered Amine Light Stabilizer

Description

LOWILITE™ 94 UV stabilizer is a Hindered Amine Light Stabilizer (HALS) that protects organic polymers against the degradation caused by exposure to ultraviolet radiation.

Chemical Name

Poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidyl)imino]hexamethylene[(2,2,6,6-tetramethyl-4-piperidyl)imino]]

CAS-Nr.

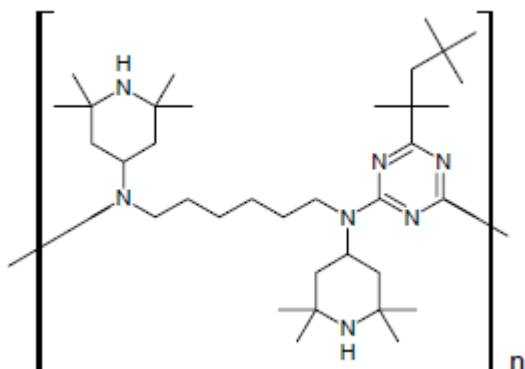
70624-18-9 equivalent with 71878-19-8

EINECS-Nr.

Exempt

Formula

LOWILITE™ 94 UV stabilizer



Typical physical properties of LOWILITE™ 94 UV stabilizer

Appearance	White to slightly yellowish granules or powder
Softening range [°C]	100 – 135
Molecular weight [g/mol]	2000 – 3300
Bulk density [kg/m ³]	510
Specific Gravity, g/ml @ 20°C	1.01
Flash point, °C	>160

Solubility (g/100g solvent) @ 25°C

Water	<0.1	Toluene	>100
Chloroform	44	<i>n</i> -Hexane	>100
Acetone	>100	Benzene	50
Methanol	<2	Methylene Chloride	50
Ethyl Acetate	80		

Thermogravimetric Analysis (10 mg @ 10 C/minute under N₂)

Weight Loss [%]	5	10	25
Temperature [°C]	365	425	455

Application

LOWILITE™ 94 UV stabilizer is an oligomeric HALS characterized by extremely low volatility, high thermal stability and excellent compatibility with many substrates. Its oligomeric structure makes it particularly effective when used in thin section articles such as fibers and films. **LOWILITE™ 94 UV stabilizer** is suited for use in polypropylene, LDPE, HDPE, XPE, EVA and PP blends with elastomers. **LOWILITE™ 94 UV stabilizer** is also effective as an antioxidant for long term thermal stability.

Food Contact

For details please contact SI Group Regulatory Affairs.

Handling and Storage

The use of proper protective equipment is recommended. Excess exposure to the product should be avoided. Wash thoroughly after handling. Store the product in a cool, dry, well-ventilated area away from incompatible materials. Unless otherwise stated, the shelf life of the product is 4 years when it is properly stored.

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