

LOWINOX® GP45 stabilizer

Phenolic Antioxidant

Description

LOWINOX® GP45 stabilizer is a high molecular weight hindered phenolic antioxidant that provides very low volatility and excellent resistance to extraction from polymer compounds.

Chemical Name

Triethyleneglycol-bis[3-(3-t-butyl-4-hydroxy-5-methylphenyl)propionate]

CAS-Number:

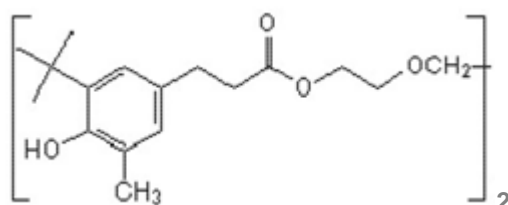
36443-68-2

EINECS-Number:

253-039-2

Formula

LOWINOX® GP45 stabilizer



Typical physical properties of LOWINOX® GP45 stabilizer

| | |
|---------------------|--------------------------|
| Appearance | White powder or granules |
| Bulk density, kg/m3 | 400 (pw) / 530 (gr) |
| Molecular weight | 587 |
| Melting range, °C | 76-79 |

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

| | | | |
|------------------|-----|-----|-----|
| Weight Loss [%] | 5 | 10 | 25 |
| Temperature [°C] | 297 | 312 | 332 |

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Solubility (g/100g solvent) @ 20°C

| | | | |
|------------|-------|--------------------|-------|
| Hexane | <0.01 | Ethyl acetate | 59 |
| Acetone | >100 | Methanol | 11 |
| Benzene | 22 | Methylene Chloride | >60 |
| Toluene | 7 | Methylcyclohexane | 0.1 |
| Chloroform | >100 | Water | <0.01 |

Application

LOWINOX[®] GP45 stabilizer provides excellent stabilizer for polyacetal (POM), polyamides and PVC. **LOWINOX[®] GP45 stabilizer** is excellent for use in most styrenic polymers such as crystal polystyrene, ABS, SBS, MBS, and high impact polystyrene. **LOWINOX[®] GP45 stabilizer** exhibits excellent synergy when used in conjunction with thioesters such as **NAUGARD[®] DSTDP thioester**.

Food Contact

This compound has broad food contact approvals. For details please contact AddivantTM Regulatory Affairs Polymer Additives.

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 AddivantTM Material Safety Data Sheet.

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