

EVERNOX[®]-76

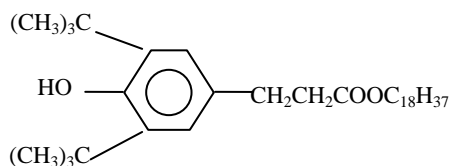
EVERNOX[®]-76GF

Phenolic Primary Antioxidant for Manufacturing, Processing and Long-Term Thermal Stabilization

Chemical Name Octadecyl-3-(3,5-di-tert-butyl-4-hydroxyphenyl)-propionate

Formula C₃₅H₆₂O₃

Structure



Molecular Weight 531

CAS Number 2082-79-3

Specification	<u>Criterion</u>	<u>Requirement</u>
	Appearance	White, free-flowing powder for EVERNOX-76 White, free-flowing granules for EVERNOX-76GF
	Ash content	0.1% max
	Volatiles	0.5% max
	Color of solution (10g in 100ml toluene)	25 APHA max
	Color of fusion	50 APHA max
	Transmittance (10g in 100 ml toluene)	at 425 nm 97.0% min at 500 nm 97.0% min
	Assay	99.0% min

Physical Properties

Melting range (°C)	49-55
Flash point (°C)	273
Specific gravity (20°C)	1.02 g/cm ³
Bulk density	Powder : 410-530 g/l GD : 470-520 g/l
Solubility (20°C)	g/100ml solution
Acetone	19
Benzene	57
Chloroform	57
Cyclohexane	40
Ethanol	1.5
Ethylacetate	38
n-Hexane	32
Methanol	0.6
Toluene	50
Water	<0.01
Weight loss (TGA, in air at 20°C/min)	
Temp.(°C) at 1 % weight loss	230
Temp.(°C) at 10 % weight loss	290

Applications

EVERNOX-76 and / or EVERNOX-76GF is a sterically hindered phenolic antioxidant with a highly effective, non-discoloring, odorless, good compatibility with most substrates and high resistance to extraction.

EVERNOX-76 can be applied in polyolefins, such as PE, PP and well as in other polymers such as styrenics and styrene homo and copolymers such as IPS, ABS, MBS and engineering plastics such as PBT, PET and PUR, elastomers like SBS, SBR, BR, adhesives and other organic substrates.

EVERNOX-76 can be combined with other additives such as costabilizer (e.g. thioesters, phosphites, phosphonites), light stabilizer and other functional stabilizers. The synergistic blends of EVERNOX-76 with EVERFOS-168 are extreme performance in polymers stabilization.

Handling & Safety

EVERNOX-76 and EVERNOX-76GF should be handled with care and prevent contamination of the environment. Avoid dust formation and ignition sources.

For more detailed information please refer to the material safety data sheet.

Packing

The following packages are available upon customer's request :

- (1) 20 kgs × 2 PE bags in the carton box.
- (2) 25 kgs × 2 PE bags in the carton box.
- (3) 50 kgs fiber drum.
- (4) Other specific request.

Transportation

EVERNOX-76 and EVERNOX-76GF are not dangerous materials according to the transportation regulations.

Storage

EVERNOX-76 and EVERNOX-76GF be stored under suitable conditions (dry & cool).

Maximum recommended storage temperature under 45°C and the storage time from the date of analysis : 60 months.



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