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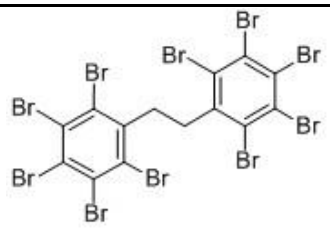
FARETAR™ DBDPE

Decabromodiphenyl Ethane

Product description

FARETAR™ DBDPE is an additive flame retardant with very high bromine content. It has good flame retardant effect, wide application range and environmental friendliness. It can be used to replace decabromodiphenyl ether.

Molecular Structure	
Chemical Name:	Decabromodiphenyl ethane
Formula	C14H4Br10
CAS Number	84852-53-9
Molecular Weight	971.2
Bromine content (theoretical), %:	82
Appearance	White or light-yellow Powder
Specific gravity, g/cm3	2.82

Comparable grade

Albemarle Saytex 8010
ICL FR-1410

Characteristics

- Non-toxic, odorless and non-corrosion
- Good thermal stability
- High bromine content
- Good UV resistance

Application

This product is a high-efficiency flame retardant with a wide range of applications. It can be used in styrene polymers, engineering thermoplastics, wires and cables etc.

Specification

Item	Specification
Melting Point, ℃	345~355
Bromine Content, %	≥ 81.5
Volatile, %	≤ 0.1
Whiteness	≥ 88
Impurity, Pieces	≤10
Halides, Ionic, ppm	≤300
Iron (Fe), ppm	≤20
Particle Size (D50), μm	≤3.0
0.1% thermal weight loss, ℃	≥320
1% thermal weight loss, ℃	≥365

*Test method：Q/0783FRT 006-2019

Solubility Reference (wt. % at 25°C)

Solvent	Solubility
Water	< 0.01
Acetone	< 0.01
Methanol	< 0.01
Toluene	< 0.01
Chlorobenzene	< 0.01
Methylene Dibromide	< 0.01
Dimethyl Formamid	< 0.01

Thermogravimetric Analysis Reference, (10°C/min, N_2)

Weight Loss (%)	°C
0.1	320
0.5	345
1	365

Packaging

25 kg PP Bags or 1000 kg PP Bags

Storage

Store the product in a cool, dry, well - ventilated area away from incompatible materials.