



## Technical Information

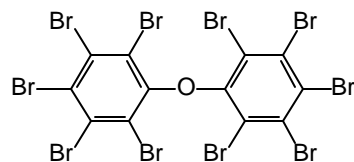
### Great Lakes DE-83R™

#### Halogenated Flame Retardant

Great Lakes DE-83R is a high purity fully brominated aromatic flame retardant with excellent thermal stability.

Decabromodiphenyl Oxide

CAS Reg. Number [1163-19-5]



#### Typical Properties

Appearance	Off-White Powder
Bromine Content, %	83
Melting Range, °C	300 –310
Specific Gravity @ 25 °C, g/ml	3.3
Bulk Loose Density @ 25 °C, g/ml	1.07
Bulk Packed Density @ 25 °C, g/ml	1.42

#### Thermogravimetric Analysis (10 mg @ 10 °C/minute under N<sub>2</sub>)

Weight Loss, %	5	10	50	95
Temperature, °C	320	334	373	409

#### Solubility (g/ 100 g Solvent)

Water	< 0.1	Toluene	0.2
Methylene Chloride	0.1	Methyl Ethyl Ketone	< 0.1
Methanol	< 0.1		

**Great Lakes DE-83R** is an additive flame retardant for thermoplastic, elastomeric and thermoset polymer systems, such as HIPS, PBT, nylon, polypropylene, LDPE, EPDM, unsaturated polyester, and epoxy. **Great Lakes DE-83R** is an excellent flame retardant for coatings and adhesive systems, including backcoatings for fabrics.

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 stated, proper storage will permit usage of the product for 6 to 12 months from the date of receipt. For additional handling and toxicological information, consult the GLCC Material Safety Data Sheet.

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