



PA

Business Unit or Division: Polymer Additives
One Great Lakes Boulevard, P.O. Box 2200, West Lafayette, IN 47996-2200

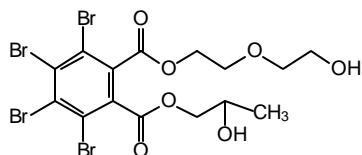
Document Type: **Technical Information**

Product Name: **Great Lakes PHT4-DIOL™**

Reactive Halogenated Flame Retardant

Great Lakes PHT4-Diol, tetrabromophthalate diol, is a reactive flame retardant intermediate. **Great Lakes PHT4-Diol** is a viscous, light brown colored liquid which exhibits excellent compatibility with a broad range of commercial polyols and blowing agents.

Tetrabromophthalate Diol
CAS Reg. Number [77098-07-8]



Typical Properties

Appearance	Lt. Brown Viscous Liquid		
Bromine Content, %	46		
Specific Gravity @ 25 °C, g/ml	1.9		

Viscosity

Temperature, °C	25	50	80
Viscosity, cps	90,000	7,500	500

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

Weight Loss, %	5	10	50	95
Temperature, °C	128	166	319	380

Solubility (g/ 100 g Solvent)

Water	< 0.1	Toluene	6
Methylene Chloride	1	Methyl Ethyl Ketone	2.6
Methanol	1.6		

Great Lakes PHT4-Diol is recommended as a reactive flame retardant for Class 1 and Class 2 rigid polyurethane foam. **Great Lakes PHT4-Diol** foams can be formulated for excellent physical properties or favorable economics. Other application areas include polyurethane RIM, elastomers, coatings, adhesives and fibers.

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.