

## *Poly-G*<sup>®</sup> 542-449

*Poly-G* ®\*542-449 polyol is propoxylated/ethoxylated polyether tetrol.

*Poly-G* 542-449 contains four functional hydroxyl groups and was developed for use in the manufacture of rigid polyurethane foams, coatings, and elastomers. *Poly-G* 542-449 has a nominal molecular weight of 500 and exhibits improved water solubility, lower viscosity, and higher reactivity than other propoxylated tetrols.

Typical physical properties are presented in Table 1.

**Table 1**  
**Typical Physical Properties**

Specific Gravity @ 25°C/25°C	1.11
Viscosity, cps @ 25°C	650
Hydroxyl No. (mgKOH/g)	449
Water, max (% by weight)	0.05
pH in 10/6 Isopropanol/Water	7.5
Color, APHA maximum	50
Acid No. (mg KOH/g)	0.25

### Storage and Handling

*Poly-G* 542-449 polyol presents no unusual problems for ordinary handling and storage. Consideration must be given to some of the properties when high product purity must be maintained.

*Poly-G* 542-449 polyol is hygroscopic. While water content at the time of shipment is extremely low, the product can absorb atmospheric moisture in amounts up to several percent of its weight.

Thus, storage should be in drums or bulk tanks under a blanket of dry nitrogen or -40°F dew point dry air. Calcium chloride or silica gel drying systems should be installed on all vents to prevent atmospheric moisture from entering the tank. Refer to Monument Chemical Data Sheet "Storage and Handling of *Poly-G* Polyether Polyols for Flexible, Rigid and Non-Foam Urethanes" for recommendations for materials of construction and heating systems

## For More Information

### Technical Service

Technical service is available to facilitate further use of Monument Chemical products. If you have a specific question or need further information, please write or call Monument Chemical, Customer Service, 2450 Olin Road, Brandenburg, KY 40108; (800) 636-3786, or fax: (270) 422-6456.

Or visit our web site at: [www.monumentchemical.com](http://www.monumentchemical.com)

### How To Order

To place orders for delivery in the U.S. or Canada and to get fast answers on order status or product availabilities, call our toll-free number: (800) 636-3786.

For written inquiries about orders, and to place confirmations, send to Monument Chemical, Customer Service, 2450 Olin Road, Brandenburg, KY 40108.

<sup>1</sup>The flammability properties of this material, or any other material, are not intended to reflect the fire hazards presented by any resultant cellular or foamed plastic product.

Please refer to the Material Safety Data Sheet (MSDS) for complete information on Storage and Handling, Toxicological Properties, Personal Protection, First Aid, Spill and Leak Procedures, and Waste Disposal. To order an MSDS, call Monument Chemical at (800) 636-3786. Before using or handling this product, the MSDS should be thoroughly reviewed.

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