

## *Poly-Q*<sup>®</sup> 40-800 Polyether Polyol

*Poly-Q*<sup>®</sup>\* 40-800 polyether polyol is an ethylene diamine-initiated, four-functional polyether polyol. The four hydroxyl groups provide highly reactive sites for polyurethane reactions. The two tertiary amines contribute autocatalytic activity for the polyurethane reaction. With an average molecular weight of 278, *Poly-Q* 40-800 polyether polyol is a reactive crosslinking agent in many polyurethane applications including coatings, sealants, adhesives, elastomers and rigid foams.

*Poly-Q*<sup>®</sup>\* 40-800 polyether polyol is a stable, practically colorless liquid with a high flash point.<sup>1</sup>

Typical physical properties are presented in Table 1. The effects of temperature on the viscosity and specific gravity are shown in Figures 1 and 2, respectively.

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

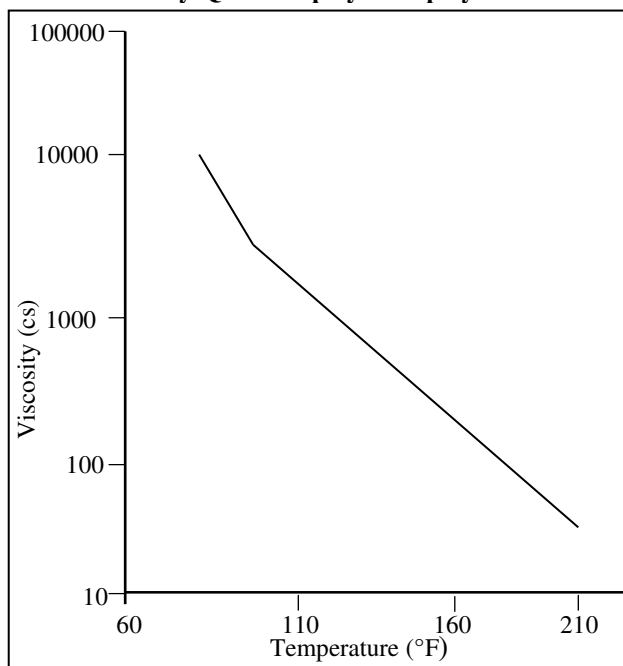
Hydroxyl No. (mgKOH/g)	800
Water (% by weight), max	0.05
Color (APHA)	70
pH in 10/6 Isopropanol/Water	11
Viscosity @ 25°C (cs)	17000
Specific Gravity @ 25°C/25°C	1.055
Flash Point <sup>1</sup> , COC	
(°C)	193
(°F)	380
Density @ 25°C (lb/gal)	8.79

### Storage and Handling

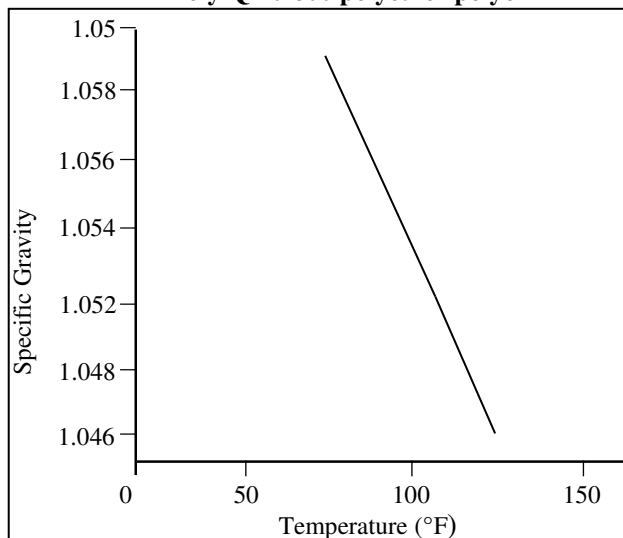
*Poly-Q* 40-800 polyether polyol does not present any unusual problems for ordinary handling and storage. It is a highly viscous liquid and is best stored and handled at 24-49°C (75-120°F). If stored below room temperature or if too viscous to pump, it should be thoroughly mixed and heated to 38-49°C (100-120°F).

<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.

**Figure 1**  
**Viscosity vs. Temperature**  
**Poly-Q 40-800 polyether polyol**



**Figure 2**  
**Specific Gravity vs. Temperature**  
**Poly-Q 40-800 polyether polyol**



*Poly-Q* 40-800 polyether polyol is hygroscopic. While water content at the time of shipment is very low, this product can absorb atmospheric moisture in amounts up to several weight percent. To ensure high product quality, storage should be in drums or bulk tanks under a blanket of dry nitrogen or -40°F dew point air. Calcium chloride or silica gel drying systems should be installed on all vents to prevent atmospheric moisture from entering the tank. See Monument Chemical Data Sheet, *Storage and Handling of Poly-G® Polyols*, 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.

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

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