Monument Chemical

Technical Product Information

Poly-G® 85-39

Poly-G®* 85-39 polyol is a hetero polyether polyol with an unusually high ethylene oxide content, imparting good hydrophilic properties to products made with it. It also contains a high content of primary hydroxyl groups for enhanced reactivity. It can be used in applications ranging from soft elastomers to flexible foams.

A glycerol-based triol, *Poly-G* 85-39 polyol has a nominal molecular weight of 4,500. It is a stable, practically colorless liquid that is neither volatile nor corrosive; with a low pour point and high flash point.[1]

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)	37
Water (% by weight), max	0.05
Acid No. (% by weight), max	0.10
Color (APHA)	50
pH in 10/6 Isopropanol/Water	6.0
Viscosity @ 25°C (cps)	1100
Specific Gravity @ 25°C/25°C	1.085
Flash Point[1], COC	
(°C)	220
(°F)	428
Density @ 25°C (lb/gal)	9.0

Figure 1
Viscosity vs. Temperature
Poly-G 85-39 polyol

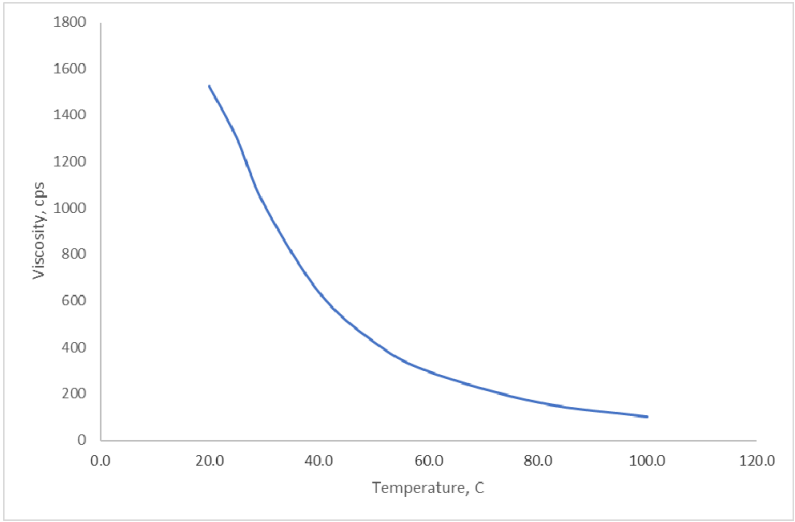
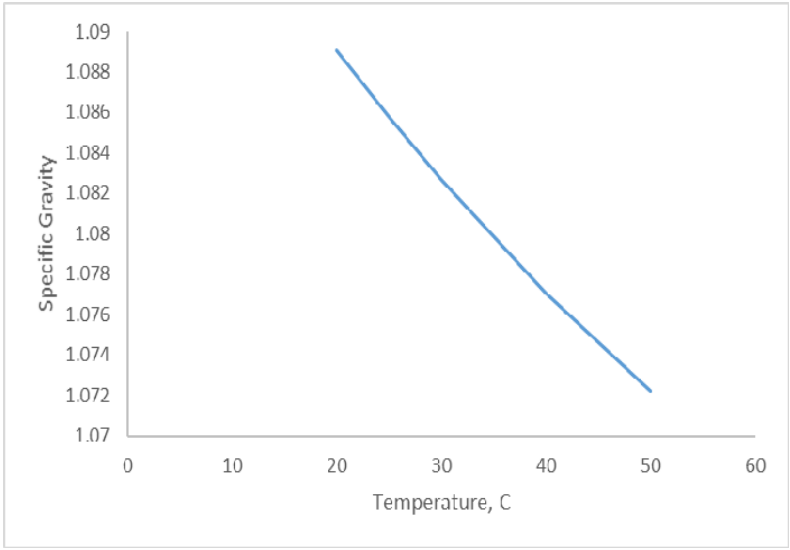


Figure 2
Specific Gravity vs. Temperature
Poly-G 85-39 polyol



Storage and Handling

Poly-G 85-39 polyol presents no unusual problems for ordinary handling and storage. Consideration must be given to some of its properties when high product purity must be maintained.

Poly-G 85-39 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° 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. See Monument Chemical Data Sheet "Storage and Handling of *Poly- G* Polyols" for recommendations of construction materials and heating systems.

[1]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.

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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

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.