

Poly-Q[®] 50-45 Crude

Poly-Q[®]* 50-45 Crude is a diethylene triamine based propoxylate. This un-neutralized material can be used as an intermediate for surfactant systems and as a supplemental amine catalyst in polyurethane systems.

Poly-Q 50-45 Crude polyol has a nominal molecular weight of 6,000. It is a stable, practically colorless liquid that is non-volatile; 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. (mg KOH/g)	47
Water (% by weight), max	0.1
Appearance	Clear to dark amber liquid
pH	10-14
Viscosity @ 25°C (cps)	1570
Specific Gravity @ 25°C/25°C	1.034
Flash Point ¹ , COC	
(°C)	193
(°F)	379
Density @ 25°C (lb./gal)	8.39

Storage and Handling

Poly-Q 50-45 Crude 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-Q 50-45 Crude 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.

Figure 1
Viscosity vs. Temperature
Poly-Q 50-45 Crude

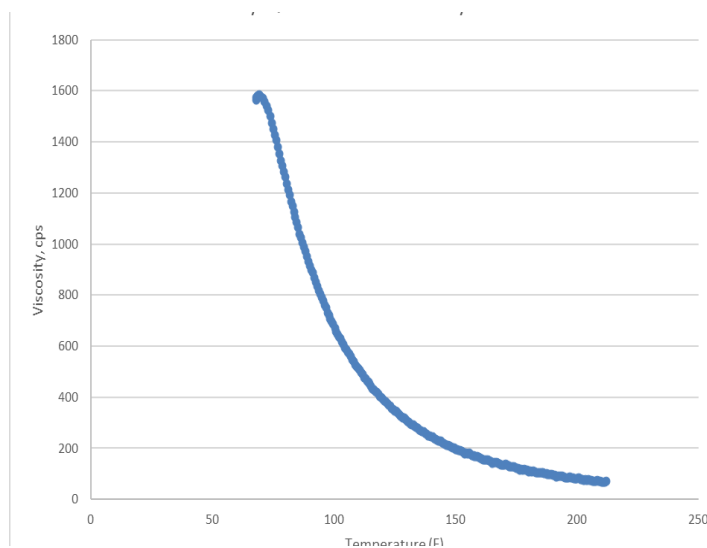
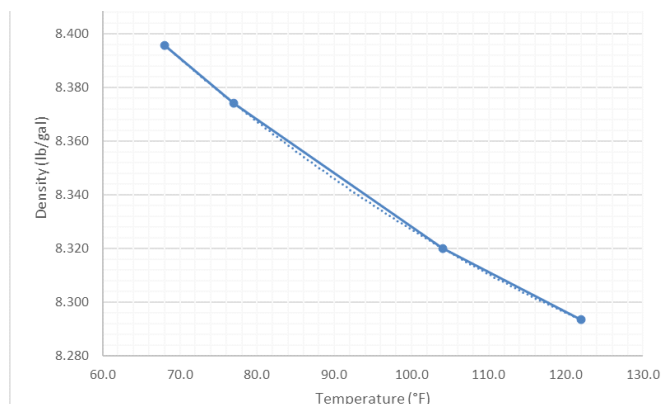


Figure 2
Specific Gravity vs. Temperature
Poly-Q 50-45 Crude



¹The 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.



Technical Product Information

For More Information

Technical Service

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