



Susterra® Propanediol—Polyurethanes

INCI Name: 1,3-Propanediol

CAS Number: 504-63-2

EINECS Number: 207-997-3

Summary

The natural advantage.

Susterra® bio-based propanediol is the building block that delivers high performance across a wide variety of polyurethane applications. It is an excellent bio-based polyol or chain extender for manufacturing urethanes. Based on the chemistry selected, the structural block of the final urethane can result in enhanced mechanical properties for the finished product.

Benefits

- Improved flexibility and tear strength
- Outstanding resilience
- Excellent adhesion
- Softness and transparency
- Enhanced abrasion resistance
- 100% USDA bio-based material, renewably and sustainably sourced

Typical Properties

Appearance	Clear
Molecular Weight	76.1
Hydroxyl Value	1475
Viscosity, cP (20°C)	49
Density (20°C)	1.053
Boiling Point (760 mmHg)	214.22°C / 417.60°F
Freezing Point	-27.65°C / -17.77°F
Flash Point	129°C / 264°F
Purity, wt%	99.7%
Water, % max	0.05%
Color, APHA max	15

Packaging

18.1 kg (40 lb) Pails
199.6 kg (440 lb) Drums
997.9 kg (2,200 lb) Totes
Tank Trucks
ISO Tank Containers

Storage Conditions and Expiration Date

Sealed containers should be stored within a temperature range of 0°– 50°C (32°–122°F). Containers can be resealed and stored within the same temperature range. Avoid prolonged exposure to oxygen and water. The use of nitrogen during storage is encouraged. If the seal is unbroken and the material has been stored according to the manufacturer's recommendations, a 2 year shelf life can be expected.

Purity Guarantee

Susterra® propanediol is made from fermentation of glucose and contains no added preservatives, petroleum-based ingredients, or animal by-products.

For additional information or samples:

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