

Susterra[®] propanediol

Typical properties of Susterra [®] propanediol	Unit	Value
Appearance	-	Clear
Molecular weight	(% by weight)	76.1
Hydroxyl value	-	1475
Viscosity cP (20°C)	°C	49
Density (20°C)	°C	1.053
Boiling point (760 mmHg)	°F / °C	417 / 214
Freezing point	°F / °C	-11 / -24
Flash point	°F / °C	264 / 129
Vapor pressure (20°C)	hPa	0.0159
Purity	wt%	≥ 99.7%
Water	% max	0.05%
Color	APHA max	15

INCI name: 1,3-Propanediol
CAS number: 504-63-2
EINECS number: 207-997-3

Summary

When performance matters, choose Susterra[®] propanediol—the pure, 100% plant-based, petroleum-free diol. Susterra[®] propanediol is the building block or bio-solvent that delivers high performance in a variety of applications including polyurethanes, unsaturated polyester resins, performance polymers, CASE, and functional fluids. Plus, Susterra[®] propanediol is renewably sourced. From cradle-to-gate, bio-based 1,3-propanediol produces 69% less greenhouse gas emissions and consumes 60% less non-renewable energy than petroleum-based 1,3-propanediol. **Compared with propylene glycol (PG), bio-based 1,3-propanediol produces 84% less greenhouse gas emissions and uses 70% less non-**

renewable energy from cradle-to-gate. Compared with butanediol (BDO), bio-based 1,3-propanediol produces 86% less greenhouse gas emissions and uses 69% less non-renewable energy from cradle-to-gate. Susterra[®] propanediol can help companies fulfill their sustainability goals without compromising on quality across a variety of industrial applications.

Benefits

- Pure
- Petroleum-free
- Non-toxic
- USDA BioPreferred[®] Certified (100% biobased)
- 100% sustainably & renewably sourced



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.

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