

Technical Information

No. 4004

Article 1,4-Butanediol divinyl ether
(Abbr. BDVE)

CAS Butane, 1,4-bis(ethenoxy)-

REG. No.	[3891-33-6]
TSCA :	Inventory
EINECS No.:	223-437-0
ENCS No.	

1. Formula



2. Properties

Mol. Wt.	142.20	Density	d^{20}	0.8985	Appear.	Colorless Liq.
Melt. Pt.	°C	Boil. Pt.		168 °C	Vap. Press.	2.7 kPa/60°C
Sp. Heat	J/K·mol	Ref. Ind.	n^{20}	1.4398	Flash Pt.	54.0 °C
Vap. Heat	J/mol	Solubility				(Tag Closed Cup)
APHA	45	Viscosity		1.2 mPa·s (25°C)		

3. Average Analysis

Assay	98.0 %min.	Packing	Steel Drum	160 kg
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4. Precautions

Avoid contact with skin/eyes as well as swallowing/inhalation
LD₅₀[Oral-Rat] g/kg

5. Reactivities

Stable in half year without water and acid

Lewis acid	→ Polymerization	Halogen	→ Halide
Acid	→ Hydrolysis	Alkali	→ Stable
Alcohol/Acid	→ Acetal	Diels-Alder condensation	

React with RCH(OR')₂, RCOOH, HCN, COCl₂, CCl₄, HC(OR)₃, NH₃, etc.

6. Applications

Comonomer with Olefins (e. g. F₂C=CF₂), Siloxanediols, Diisocyanates, etc.
Modifiers for Adhesives, Coatings, Finishes, Lube-oil-additives, etc.
Providing Compatibility, Hydrophilicity, Plasticity, etc. and
improving Processing, Dyeability, Toughness, Softness, Clarity, Brilliance, etc.

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