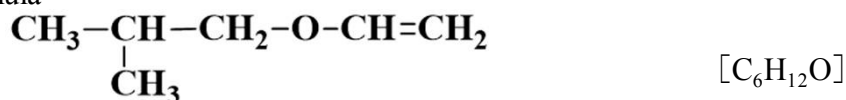


Article Isobutyl vinyl ether
(Abbr. IBVE)

CAS Propane, 1-(ethenyloxy)-2-methyl-

REG. No.	[109-53-5]
TSCA :	Inventory
EINECS No.:	203-678-8
ENCS No.	(2)-372

1. Formula



2. Properties

Mol. Wt.	100.16	Density	d ²⁰ 0.7692	Appear.	Colorless Liq.
Melt. Pt.	-112 °C	Boil. Pt.	83 °C	Vap. Press.	6.7 kPa/18°C
Sp. Heat	0.0232 J/K·mol	Ref. Ind.	n ²⁰ 1.3938	Flash Pt.	-15 °C
Vap. Heat	3.11 J/mol	Autoignition	135 °C	Viscosity	0.47 mPa·s (20°C)
Solubility	3,000mg/1,000ml-water				

3. Average Analysis

Assay	99.0 %min.	Packing	Steel Drum	150 kg
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4. Precautions

Avoid contact with skin/eyes as well as swallowing/inhalation
LD₅₀[Oral-Rat] 17 ml/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

Monomer as intermediate for Medicament, Plasticizer, Anticorrosive, etc.
Homopolymer for Adhesives, Paint, Varnish, Lubricator, Grease, Elastmer, etc.
Comonomer (with Olefins (e. g. F₂C=CF₂), Siloxanediols, Diisocyanates, etc.) or as
Reactive diluent 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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