



Hexafluoroisopropoxymethyl Norbornene (NBHFIP)

CAS No. 196314-61-1

Hexafluoroisopropoxymethyl norbornene is used as a monomer in the production of specialty polymers.

Specifications

Area by Gas Chromatography	99.6% minimum
Epoxide of NBHFIP	0.1% maximum
Dicyclopentadiene	0.1% maximum
Trimers	0.05% maximum
Allyl hexafluoroisopropanol	0.05% maximum
Exo isomer	15-25%
Water	500 ppm maximum
Appearance	Clear liquid free of suspended, colloidal matter
Color, APHA	20 maximum

Physical Properties

Chemical Formula:	C ₁₁ H ₁₂ F ₆ O
Mol. Wt.:	274
Boiling Pt.:	>200 °C at atmospheric pressure
Density:	1.3 g/mL at 25 °C
Vapor Pressure:	27 mm Hg at 97 °C
Appearance & Odor:	Clear to yellow liquid with pungent hydrocarbon odor
Solubility in H ₂ O:	Insoluble

Packaging

Contact Customer Service

Typical chemistry and uses

Hexafluoroisopropoxymethyl norbornene is used as a monomer in the synthesis of specialty polymers for use as photoresists.

Some examples of the use of the NBHFIP in the formation of 157 and 193 nm photoresists are shown below.

Reference: **Development of 157 nm photoresists**
<http://willson.cm.utexas.edu/Research/research.htm>

