BosTech LLC.FZ
POLYMER

Vinyl Ester Monomer

Product Description:

Vinyl Ester Monomer is a synthetic, highly branched, saturated monocarboxylic acid with ten carbon atoms. This low-viscosity liquid has a mild ester-like odor and is an excellent monomer for polymer production through vinyl group reactions. It enhances polymers by providing a balance of flexibility (medium to low Tg), hydrophobic properties, and strong resistance to chemicals and UV exposure.

Technical Data Sheet

Property	Test Method	Unit	Value
Molecular formula (theoretical)	-	-	$C_{12}H_{22}O_2$
Molecular mass (theoretical)	-	-	198
Added inhibitor (hydroquinone monomethyl ether)	LPM 3112	mg/kg	5 ± 2
Kinematic viscosity at 20°C	ASTM D445	mm^2/s	2.2
Specific heat at 20°C	ASTM E1269	kJ/kg °C	1.97
Latent heat of vaporization at 20°C	-	kJ/mol	48.9
Boiling range	ASTM D1078	°C	133-136*
Flash point (PMCC)	ASTM D93	°C	75
Pour point	ASTM D97	°C	Below -60
Solubility in water at 20-80°C	-	% (m/m)	<0.1
Solubility of water in monomer at 20-80°C	-	% (m/m)	0.05
Miscibility with vinyl acetate	-	-	Completely miscible
Specific heat of polymerization	ASTM E1269	kJ/mol	96
Copolymerization parameters**, e	-	-	-0.53
Copolymerization parameters**, Q	-	-	0.026
Glass transition temperature (Tg) of homopolymer	ASTM D3418	°C	-3 (vinyl acetate homopolymer = 32°C)

Packaging: 179 KG

Expiry Date: 2026

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