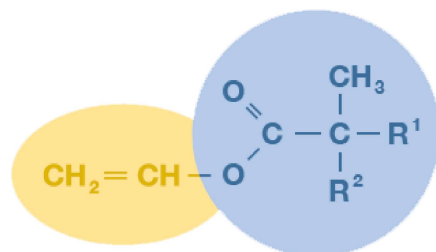


# Technical Data Sheet

## Veova™ 10 Monomer

### Description

Veova™ 10 monomer is the vinyl ester of Versatic™ acid 10, a synthetic saturated monocarboxylic acid with a highly branched structure containing ten carbon atoms. Its structure may be represented as:



$R^1 + R^2 = 7$  carbon atoms

$R^1$  and  $R^2$  are alkyl groups containing a total of 7 carbon atoms. Veova 10 monomer, a low viscosity liquid with a typical mild ester odor, is a very attractive monomer for the manufacture of polymers through reactions of the vinyl group. It imparts a combination of flexibility (medium to low Tg), hydrophobicity and very good chemical and UV resistance.

### Applications

Veova 10 monomer is widely used as a modifying co-monomer in the manufacture of vinyl acetate based polymer latices. Veova 10 monomer is also used for the production of Veova 10/(meth)acrylic latices and solution polymers.

Examples of Veova 10 monomer based polymer applications are:

- Decorative emulsion paints, plasters and renders.
- Industrial paints and coatings such as anti-corrosion paints, wood coatings and varnishes and coatings for polyolefins.
- Latices and spray-dried redispersible powders for mortar admixtures.
- Latices for adhesives including Pressure Sensitive Adhesives, construction and wood adhesives.
- Reactive diluent for specific heat-cured unsaturated polyesters.

### Sales Specifications

Property	Value	Unit	Test Method
Acid value	1.0 max	mg KOH/g	ASTMD1639
Appearance	Clear liquid, free from suspended matter		ASTMD4176
Color	15 max	Pt-Co	ASTMD1209
Density at 20°C	875.0 - 885.0	kg/m <sup>3</sup>	ASTMD4052
Refractive Index n <sub>D25</sub>	1.432 - 1.437	N/mm <sup>2</sup>	ASTMD1218
Vinyl Unsaturation*	4.85 - 5.10	mol/kg	SMS 2687
Water Content	0.10 max	% (m/m)	ASTME203

Veova™ 10 Monomer

<https://www.hexion.com/en-US/product/veova-10-monomer>

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\*Vinyl unsaturation in moles/kg x 16 = Bromine number in grams of Br/100g

## Typical Properties

Property	Value	Unit	Test Method
Added Inhibitor (hydroquinone monomethyl ether)	5 +/-2	mg/kg	LPM3112
Boiling Point	212	°C	
Copolymerisation Parameters*	e -0.530; Q 0.026		
Flash Point (PMCC)	>94	°C	
Glass Transition Temperature of Homopolymer (Tg) ** (vinyl acetate homopolymer = 32°C)	-3	°C	ASTMD3418
Kinematic Viscosity at 20°C	2.2	mm <sup>2</sup> /s	ASTMD445
Latent Heat of Vaporisation at 20°C	48.9	kJ/mol	
Miscibility with Vinyl Acetate	Completely miscible		
Molecular formula (theoretical)	C <sub>12</sub> H <sub>22</sub> O <sub>2</sub>		
Molecular mass (theoretical)	198		
Pour Point	Below -60	°C	ASTMD97
Solubility in Water at 20-80°C	5.0	mg/l	
Solubility of Water in Monomer at 20-80°C	0.05	% (m/m)	
Specific Heat at 20°C	1.97	kJ/kg °C	ASTME1269
Specific Heat of Polymerisation	96	kJ/mol	ASTME1269

\* Using constants according to Young, *J.Pol.Sci.* 54,411, e=-0.22, Q = 0.026 for Vinyl acetate

\*\* By differential scanning calorimetry (onset value 20°C per minute).

## Test Methods

ASTM Standards are published by the American Society for Testing and Materials, 100 Barr Harbor Drive, west Conshohocken, PA 19428-2959, USA.

SMS and LPM methods mentioned are available from Hexion Inc.

## Handling Precautions

For more detailed information on all aspects relating to Health, Safety and Handling, reference should be made to the Safety Data Sheet of VeoVa 10 monomer, which is available from your local Hexion representative or distributor.

## Transportation and Storage

Information on transport, storage, suitable materials for tank construction, etc, is available from Hexion, via local representative or distributor.

VeoVa 10 Monomer should be stored at ambient temperature (min 5 °C - max 50 °C) in conditions such that moisture is excluded, in the original containers kept tightly closed. Under these conditions the shelf life should be a three years starting from the manufactured date.

## Contact Information

For contact information about this product, go to [www.hexion.com](http://www.hexion.com) and visit Versatic Derivatives product pages. Here you will have option to choose your region to find a representative in your area.

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