

# Trimethylolpropane molten

## Performance advantages for your polyester resins

### Product Description

Trimethylolpropane (TMP) is a polyhydric alcohol that has three equally reactive hydroxyl groups making it a versatile building block with crosslinking capabilities for polyesters, polyurethanes and acrylates.

In liquid polyesters, alkyds and polyurethanes TMP is used to give additional crosslinking enabling increased resistance of your coating. TMP acrylate is also well known to be a perfect fit as an acrylate in UV wood coatings combining low viscosity with high scratch resistance. Another application benefitting from TMP is synthetic lubricants where polyesters are used in for example engine, transmission, hydraulic and metal working oils to give low viscosity and increased intrinsic viscosity.

The product is a liquid melt.

### Segment Applications

Alkyd resins, Aviation turbine oils, Liquid polyesters, Powder polyesters, Polyurethane resins, Radiation curing, Synthetic lubricant esters

### Delivery Forms

Bulk at approx. 100 °C



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## Sales Specification

Characteristics	Unit	Specification	Analytical Method <sup>1</sup>	Comment
Hydroxyl number	mg KOH/g	1238-1260	PO 100-4	2
Melting point (final)	°C	Min. 57	PO 102-2/ PO102-3	
Ash content	ppm	Max. 10	PO 103-10/ PO 103-17	3
Water content	%	Max. 0.10	PO 109-2	4

1. Analytical methods are available on request

2. As OH-percentage, 37.5-38.2 %

3. From SE, US and CN reported as sodium. From IT reported as total ash.

4. From US max 0.05 %, from SE, CN and IT max 0.10 %

## General Characteristics

Characteristics	Unit	Typical Value <sup>1</sup>
Acidity (as formic acid)	ppm	5
Color as fuse	APHA	15

1. Typical values are for information only and not part of sales specification

## Handling and Storage

TMP is hygroscopic and should be handled to prevent moisture absorption.

Store molten TMP at 90-110 °C under inert gas.

CAS No.: 77-99-6

HS No.: 2905 41

REACH registration No.: 01-2119486799-10-XXXX

Effective date: January 13, 2022

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