

# Trimethylolpropane flakes

## 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 white material in flakes.

### Segment Applications

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

### Delivery Forms

Bags 25 kg (55 lb.), 750 kg/pallet (in China), 1000 kg (2205 lb.)/pallet  
Big bags 500 kg (1103 lb.)  
Big bags 1000 kg (only Sweden)



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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/<br>PO 102-3          |         |
| Ash content           | ppm      | Max. 10       | PO 103-10/<br>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. As packaged, 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 TMP flakes in its original packaging at low temperatures, preferably below 30 °C, to avoid cake formation. Do not exceed 50 °C.

Stacking pallets during storage could increase the risk of caking.

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HS No.: 2905 41

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