# **Technical Information**

**Petrochemicals Plasticizers** 

TI/N-CPN/IP Palatinol® TOTM-I May 2023 Page 1 of 3

Supersedes edition dated August 2022



# Palatinol<sup>®</sup> TOTM-I

(Stabilized with 0.1% of 1,1,3-Tris(2-methyl-4-hydroxy-5-tert-butylphenyl)butane antioxidant)

Palatinol<sup>®</sup> TOTM-I is a primary, branched monomeric plasticizer for vinyl homopolymer and copolymer resins. Palatinol<sup>®</sup> TOTM-I is suggested for use in those end-use areas where extreme low volatility is required.

**Chemical Nature** 

**BASF Registered Name** 

CAS No.

**Molecular Weight** 

Formula

**Molecular Structure** 

**Product Specifications** 

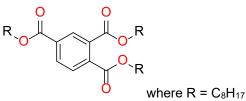
C33H54O6

3319-31-1

546

Trioctyl trimellitate

Palatinol® TOTM-I



	Value	Test Method
Specific gravity @ 25°/25 °C	0.984 - 0.991	ASTM D-4052
Ester content, % by weight (minimum)	99.0	ASTM D-3465
Acid Number, mg KOH/g (maximum)	0.1	ASTM D-1045
Water, % by weight (maximum)	0.1	ASTM E-203
Color, Pt-Co Units (APHA, maximum)	100	ASTM D-5386
Suspended Matter	COLSFFM*	visual

\*Clear Oily Liquid Substantially Free of Foreign Material

The following data were measured in the BASF Corp. laboratory. They do not represent any legally binding guarantee of properties for our sales product.

	Pour point, °C Flash point (COC), °C Odor Surface Tension, mN/m Solution Temperature, °C Plastisol Gelation Temperature, °C Vapor Pressure @ 20 °C, mbar Solubility @ 25 °C in water, mg/L Viscosity & Density Data		Value -46 250 mild characteristic 31.3 141 145 < 0.01 < 0.01	
	Temperature (°C) -10 0 10 20 40 60 80	Dynamic viscosity (cF 4,321 1,483 622 292 85.0 32.9 15.7	<ul> <li>Density (g/cm<sup>3</sup>)</li> <li>1.011</li> <li>1.003</li> <li>0.996</li> <li>0.988</li> <li>0.974</li> <li>0.960</li> <li>0.945</li> </ul>	
Description	<ul> <li>Palatinol<sup>®</sup> TOTM-I is a primary, branched monomeric plasticizer for vinyl homopolymer and copolymer resins. Palatinol<sup>®</sup> TOTM-I is suggested for use in those end-use areas where extreme low volatility is required.</li> <li>Palatinol<sup>®</sup> TOTM-I can be blended with Palatinol<sup>®</sup> 111P-I to optimize cost-performance in medium to high temperature compounds.</li> <li>Palatinol<sup>®</sup> TOTM-I is inhibited with 0.1% of 1,1,3-Tris(2-methyl-4-hydroxy-5-tert-buytlphenyl)butane.</li> </ul>			
Applications	<ul> <li>Palatinol<sup>®</sup> TOTM-I provides desirable properties in vinyl applications which require good plasticizer/resin compatibility, low volatility, resistance to extraction by soapy water and good electrical properties.</li> <li>Palatinol<sup>®</sup> TOTM-I is often a good substitute for polyester polymeric plasticizers where improvements in processing are desired.</li> <li>Palatinol<sup>®</sup> TOTM-I is suitable alone or in combination with Palatinol<sup>®</sup> 111P-I for:</li> <li>90 °C and 105 °C wire insulation</li> <li>interior automotive applications (instrument panel skins).</li> </ul>			
Safety	<ul> <li>Based on toxicity studies, Palatinol<sup>®</sup> TOTM-I has a low order of toxicity and does not require special handling. Handle in accordance with good industrial hygiene and safety practices. Avoid eye contact by wearing personal protective equipment. If eye contact occurs, wash with flowing water and contact physician.</li> <li>Avoid repeated or prolonged skin contact. Avoid breathing vapors by providing adequate ventilation.</li> <li>Always refer to the Safety Data Sheet (SDS) for detailed information on safety.</li> </ul>			
Storage and Handling	Palatinol <sup>®</sup> TOTM-I can be sto moisture is excluded.	red for one year at te	mperatures below 40°C, if	
Packaging	Palatinol <sup>®</sup> TOTM-I is available	in bulk, tank trucks or r	ail cars.	

#### **Contact Information**

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Note

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