

# DMPA™ Regular

The key dispersing monomer for PUDs

## Product Description

DMPA™, with the chemical name Dimethylolpropionic Acid, is a trifunctional compound of neopentyl structure containing two primary hydroxyl groups and one tertiary carboxyl group. In polyurethane dispersions, the benefit of DMPA™ is that only small amounts are needed to create stable dispersions, resulting in excellent water resistance. DMPA™ is a white crystalline material.

DMPA™ Regular is the DMPA™ product with the largest particle size for improved flow through pipes and valves.

## Segment Applications

Polyurethane dispersions as well as other water based systems (e.g. alkyds, epoxy and polyesters). Also used in solventborne alkyds and in various other resin technologies.

## Delivery Forms

25 kg bags (35 bags per pallet); Easyopen bags outside US only

500 kg Big bags

250 lb drums (US only)



Waterborne solvent free PUDs need to deliver not just low/no VOC solutions for coatings and adhesives but stable and precise performance properties within cost requirements. Our PUD building block products, such as DMPA™ give resin producers the flexibility to choose the exact properties required

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## Sales Specification

| Characteristics           | Unit  | Specification | Analytical method <sup>1</sup> |
|---------------------------|-------|---------------|--------------------------------|
| Hydroxyl content          | wt. % | Min. 24.0     | PO 503                         |
| Neutralization Equivalent | g/Eq  | Max. 141.0    | PO 503                         |
| Ash as Na <sub>2</sub> O  | wt. % | Max. 0.03     | PO 504                         |
| Water content             | wt. % | Max. 0.3      | PO 510                         |
| Phthalic Color            | APHA  | Max. 250      | PO 508                         |

1. Analytical methods are available on request

## General Characteristics

| Characteristics  | Unit              | Typical Value <sup>1</sup> |
|------------------|-------------------|----------------------------|
| Molecular Weight | g/mol             | 134.1                      |
| Acid Number      | mg KOH/g          | 410 – 415                  |
| Bulk Density     | kg/m <sup>3</sup> | 839                        |
| Appearance       |                   | Solid granules             |

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

## Handling and Storage

Perstorp recommends storing DMPA™ in sealed bags at ambient temperature, in a dry area protected from direct sunlight and the elements.

CAS No.: 4767-03-7  
 EC (EINECS) no.: 225-306-3  
 HS No.: 2918 19

Effective date: February 15, 2022

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