# Functional Chemical

# DMPA （Dimethylolpropionic Acid）

**DESCRIPTION**

DMPA is a molecule that has both hydroxyl and carboxyl groups, unique and multi-functional resistance.

The free acid group can actively improve the water solubility or water dispersion properties of the resin after neutralizing the alkali. Introducing polar base

To improve the adhesion of coatings and the dyeing properties of synthetic fibers; Increase the alkali solubility of the coating. Can be applied to the water

The DMPA is a tasteless, free-flowing, white crystalline solid.

**TYPE**

Sodium salt of an amino functional sulfonic acid

**KEY FEATURES**

- Broad pH stability
- Special chain extender
- Sodium salt of an amino functional sulfonic acid
- Widely used in water based polyurethane (WPU) dispersions

**TYPICAL PROPERTIES**

| | |
|---|---|
| **Hydroxyl content, wt %** | >24 |
| **Neutralizing equivalence, g/eq** | <141 |
| **Ashes of Na2O, wt %** | <0.03 |
| **Impurities, wt %** | <0.5 |
| **Water insolubles, PPM** | <50 |
| **Chroma** | <250 |

**TYPICAL PROPERTIES TABLE**

| character | value |
|---|---|
| Molecular weight | 134.13 |
| Acid value, mg KOH/g | 410 -415 |
| Melting point, °C. | 170-180 |
| Flash point | 220 °C |
| Decomposition temperature | 230 °C |
| Solvent solubility, g / 100 g 25 °C | |
| Water | 11 |
| Acetone | 2.3 |
| Ethanol | Insoluble |

**APPLICATION**

- Soluble polyurethane system, water-soluble alkyd resin and polyester resin, epoxy ester coating, polyurethane elastomer, and Powder coating

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|---|---|
| **STORAGE AND HANDLING** | ● Available in 200kg/drum or 25 kg/drum<br>● Store products in tightly closed original containers at 5-40℃<br>● Shelf life: 12 months from delivery date<br>● According to non-dangerous goods transport |

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