N'-[3-(Dimethylamino)propyl]propane-1,3-diamine (DMAPAPA)

N'-[3-(Dimethylamino)propyl]propane-1,3-diamine (DMAPAPA) · RS-DMAPAPA · CAS 10563-29-8 · Technical Data Sheet · RawSource · rawsource.com/product/dimethylaminopropylaminopropylamine-dmapapa/

CAS NO.	PRODUCT CODE	PRODUCT TYPE
10563-29-8	RS-DMAPAPA	Aliphatic polyamine · epoxy curing agent and catalyst

N'-[3-(Dimethylamino)propyl]propane-1,3-diamine (DMAPAPA) carries primary, secondary and tertiary amine functionalities. It is used mainly as an epoxy and polyurethane catalyst and as a hardener or crosslinker for epoxy. It is a fast and efficient epoxy hardener suitable for cold curing applications. Its cure kinetics, glass transition temperature (Tg) and mechanical properties are comparable to those of N-aminoethylpiperazine and triethylenetetramine.

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Product page: rawsource.com/product/dimethylaminopropylaminopropylamine-dmapapa/
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GENERAL INFORMATION

Chemical name	N'-[3-(Dimethylamino)propyl]propane-1,3-diamine
Molecular formula	$C_8H_{21}N_3$

TYPICAL PROPERTIES

Density	0.88±0.02 g/cm³ @25 °C	Viscosity	15 mPa·s max

Typical values are representative of the product and are not specifications.

Cures highly efficiently at 7.5 pbw. The performance can be adjusted via parts by weight.

RELEASE SPECIFICATION

PARAMETER	SPECIFICATION	TYPICAL
Appearance	Colorless to yellowish clear liquid	Conform
Content	99 % min	
Color, APHA	20 max	10
Moisture	0.50 % max	0.26 %
Amine Value	1,000 – 1,100 mg KOH/g	1,032 mg KOH/g

Each lot is released against this specification. Lot-specific results are reported on the Certificate of Analysis that ships with every delivery.

KEY FEATURES

- Fast epoxy hardener
- Accelerating effect observed even at a low EEW ratio
- A longer gel time but higher Tg is reached with less DMAPAPA

APPLICATIONS

- Epoxy and polyurethane catalyst
- Hardener or crosslinker for epoxy
- Epoxy adhesives, coatings and paints
- Cold curing applications

Applications are those stated for the product. Confirm suitability for each formulation by trials.

HANDLING REQUIREMENTS

- May be stored under air at ambient temperatures for extended periods.
- A nitrogen blanket is suggested for all storage, to reduce the effect of accidental exposure to high temperatures and to reduce the absorption of atmospheric moisture and carbon dioxide.
- Discoloration can occur at temperatures in excess of 35 °C.
- Store separately from oxidizers and acids.

PACKAGING AND SHELF LIFE

- 180 kg steel drums
- 900 kg IBC
- bulk
- Shelf life: 12 months from production date.

The information in this Technical Data Sheet is provided for technical evaluation and is believed to be accurate as of the issue date. Typical values are representative and do not constitute a warranty. Binding specifications are those stated on the lot-specific Certificate of Analysis and in the sales contract. Users should verify suitability for their own process and regulatory requirements. Refer to the Safety Data Sheet before handling. Questions: solutions@rawsource.com.