4,4'-Diaminodicyclohexylmethane (PACM, H12MDA)

4,4'-Diaminodicyclohexylmethane (PACM, H12MDA), trans,trans isomer 30 – 40 % · RS-PACM_30-40 · CAS 1761-71-3 · Technical Data Sheet · RawSource · rawsource.com/product/44-diaminodicyclohexylmethane/

CAS NO.	PRODUCT CODE	PRODUCT TYPE
1761-71-3	RS-PACM_30-40	Cycloaliphatic diamine · epoxy curing agent

4,4'-Diaminodicyclohexylmethane (PACM) is mostly used to synthesize transparent aliphatic isocyanate and polyamide resin. It can also be used as an epoxy resin curing agent. It is supplied as a colorless to light yellow liquid. The trans-trans isomer content is 30 – 40 %.

DISTRIBUTED BY
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Product page: rawsource.com/product/44-diaminodicyclohexylmethane/
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GENERAL INFORMATION

Chemical name	4,4'-Diaminodicyclohexylmethane
Molecular formula	$C_{13}H_{26}N_2$

TYPICAL PROPERTIES

Boiling Point	320 °C

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

RELEASE SPECIFICATION

PARAMETER	SPECIFICATION	TYPICAL
Appearance	Colorless to light yellow liquid	Colorless clear liquid
Color (APHA)	25 max	4.22
Primary amine (wt %)	99.0 min	99.14
Viscosity (mPa·s,25 °C)	50 – 80	70
Moisture (wt %)	0.20 max	0.04
Amine Value (mg KOH/g)	500 – 550	528
Isomer Rate, trans-trans (%)	30 – 40	36.45

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

KEY FEATURES

- Provides a long pot life in use
- Contributes to high temperature resistance in application
- Contributes to good moisture and chemical resistance in application
- Benefits adhesion on metal substrates
- Allows good color stability

APPLICATIONS

- Synthesis of transparent aliphatic isocyanate and polyamide resin
- Epoxy resin curing agent

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 absorption of atmospheric moisture and carbon dioxide.
- Discoloration can occur at temperatures above 60 °C.

PACKAGING AND SHELF LIFE

- 190 kg steel drums
- 950 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.