m-Phenylenediamine (MPD)

m-Phenylenediamine (MPD) · RS-MPD · CAS 108-45-2 · Technical Data Sheet · RawSource · rawsource.com/product/m-phenylenediamine-mpd/

CAS NO.	PRODUCT CODE	PRODUCT TYPE
108-45-2	RS-MPD	Aromatic diamine · monomer and epoxy curing agent

m-Phenylenediamine (MPD) is a monomer and hardener supplied as a white flake. It is used as an intermediate in the synthesis of resorcinol, meta-aramid fibers, PEI, RO membrane and rubber chemicals, and as a curing agent or chain extender for epoxy resins and polyurea. It is unstable in air and may turn light red. It is sensitive to air, moisture and elevated temperatures, and any of these conditions tends to hasten color deterioration.

DISTRIBUTED BY
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Product page: rawsource.com/product/m-phenylenediamine-mpd/
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Quote by RS code: RS-MPD

GENERAL INFORMATION

Chemical name	m-Phenylenediamine
Molecular formula	$C_6H_8N_2$

TYPICAL PROPERTIES

Boiling Point	282 – 284 °C	Melting Point	63 – 65 °C
Solubility	Soluble in water, alcohol, and ether.	Other Properties	Sensitive to air, moisture, and/or elevated temperatures and the presence of any of these conditions tend to hasten color deterioration.

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

RELEASE SPECIFICATION

PARAMETER	SPECIFICATION	TYPICAL
Appearance	White flake	Conform
Purity	99.9 % min	99.99 %
Crystallization Point	62.5 °C min	62.78 °C
OPD	100 mg/kg max	ND
PPD	200 mg/kg max	30 mg/kg

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

APPLICATIONS

- Intermediate in the synthesis of resorcinol, meta-aramid fibers, PEI, industrial dyes and pigments, RO membrane and rubber chemicals
- Curing agent or chain extender for epoxy resins and polyurea

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

HANDLING REQUIREMENTS

- Store in a cool, well-ventilated place away from sources of fire and heat.
- Keep tightly closed.
- Store away from oxidants, acids and food chemicals, and avoid mixing.

PACKAGING AND SHELF LIFE

- 25 kg fiber drums
- 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.