Diethylenetriamine (DETA)

Diethylenetriamine (DETA) · RS-DETA · CAS 111-40-0 · Technical Data Sheet · RawSource · rawsource.com/product/diethylenetriamine/

CAS NO.	PRODUCT CODE	PRODUCT TYPE
111-40-0	RS-DETA	Aliphatic polyamine · epoxy curing agent

Diethylenetriamine (DETA) is a hardener supplied as a colorless to yellowish clear liquid. It is a hygroscopic, strongly alkaline, viscous liquid with an ammonia odor, soluble in water and hydrocarbons.

DISTRIBUTED BY
RawSource Inc.
515 E Las Olas Blvd, Suite 1301, Fort Lauderdale, FL 33301
305-307-6515 · solutions@rawsource.com · rawsource.com
Product page: rawsource.com/product/diethylenetriamine/
Request a quote: solutions@rawsource.com · 305-307-6515
Quote by RS code: RS-DETA

GENERAL INFORMATION

Chemical name	Diethylenetriamine
Molecular formula	$C_4H_{13}N_3$

TYPICAL PROPERTIES

Flash point	96.7 °C At 1,013 hPa	Density	957 kg/m³ at 20 °C

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

RELEASE SPECIFICATION

PARAMETER	SPECIFICATION	TYPICAL
Appearance	Colorless to yellowish clear liquid	Colorless clear liquid
Content	99 % min	99.82 %
Color, APHA	30 max	15
Moisture	0.50 % max	0.02 %
Specific Gravity, 20/20 °C	0.960 max	0.951

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

KEY FEATURES

- As a crosslinking agent, forms cross-linked structures and increases product stability and mechanical properties

APPLICATIONS

- Direct hardener for epoxy
- Building block for polyamidoamines
- Chelating agent for metal ions
- Crosslinking agent
- Intermediate for HALS type UV stabilizers

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 60 °C.

PACKAGING AND SHELF LIFE

- 190 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.