

## N-DODECYLMERCAPTAN

SPECIFICATIONS	VALUES	METHODS
Appearance	Clear liquid, no turbidity or suspended matter	Visual
Purity (% weight)	≥ 98.5	SOP QC-123e (GC)
Mercaptan Sulfur (% weight)	≥ 15.5	Potentiometry SOP QC-085e
Color (APHA)	≤ 20	SOP QC-082e

The above commercial specifications are guaranteed; they were established using the test methods which were in force at the plant at the time of product shipment, and are in accordance with any applicable revision of specifications.

**NDM (or lauryl mercaptan) is a linear C12 mercaptan.**

### USES

NDM has a variety of applications in the chemical, pharmaceutical, agrochemical and mining industries. NDM is a chain transfer agent used to control polymer molecular weight in radical polymerization processes, including synthetic rubbers (SBR, polychloroprene), polyacrylics (PMMA & coatings), ABS & other polymers such as polyvinyl acetate and polyvinylchloride (PVC).

NDM is also used as a chemical reactant in the manufacturing of antioxidants for polyolefins.

NDM is formulated as a tertiary collector in flotation processes for recovery of sulfide ores.

In organic synthesis, NDM performs all the standard reactions of primary mercaptans, such as addition on double bonds, reactions with aldehydes and ketones to give thioacetals (mercaptals) and thioketals, respectively, formation of metal-mercaptide salts.

### PACKAGING

- Drum: 216 L / 4 x 170kg NW on a pallet
- Semi-Bulk Container S.B.C: 1100 L / 850 kg NW & 2500 L / 1900 kg NW
- Bulk Delivery: Roadtankers and Isocontainers: Loading up to 22,5mt NW

### PHYSICAL DATA

- Density 20° C 0.840 g/cm<sup>3</sup>
- Viscosity 20° C 3.24 mPa.s (cP)
- Boiling point 275° C
- Melting point - 7° C
- Decomposition temperature 350° C
- Flash point (closed cup) 128° C (ASTM)
- Vapour pressure 20° C 1,2 Pa @ 205°C
- Vapour pressure 50°C < 0.1 mbar (hPa)
- Refractive index 20°C 1.459

### SOLUBILITY

NDM is not soluble in water, slightly soluble in light alcohols and soluble in aromatic and aliphatic hydrocarbons.

### STORAGE / SAFETY / PRECAUTIONS DURING USE / HANDLING

Please refer to the safety data sheet before any use

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