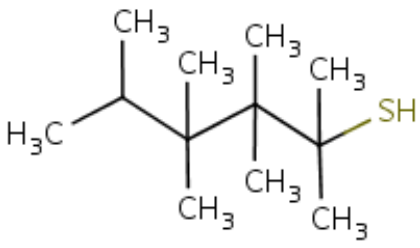
AdaKem®
Kimya San. Ve Tic Ltd. Şti.

TERTIARY DODECYL MERCAPTAN (TDM)



IUPAC NAME: 2,3,3,4,4,5-hexamethylhexane-2-thiol

CHEMICAL FORMULA: $C_{12}H_{26}S$

CAS NO: 25103-58-6

MOLECULAR WEIGHT: 202.4 g/mol

PACKING: Barrel, 175 KG

PRODUCT DESCRIPTION:

Tertiary Dodecyl Mercaptan (TDM) is a versatile and essential chemical additive that finds its applications across various industries, most notably in the polymerization process. As a chain transfer agent, TDM plays a pivotal role in controlling the molecular weight and structure of polymers, resulting in high-performance materials with tailored properties.

PROPERTIES:

- Precise Chain Transfer
- Versatility
- Enhanced Product Properties
- Process Efficiency
- Reduced Residue

APPLICATION AREAS:

- Polymer Manufacturing
- Additives
- Chemicals Manufacturing
- Mining

IT IS APPLIED IN THE PRODUCTION OF:

- polymers
- pH regulators
- water treatment products.

Yeşilbağlar Mahallesi, Kaptan Sk Metrowin Tower 17/1, Kat:8 Daire:51, 34893 PENDİK/İSTANBUL
Tel: +90 216 330 92 00 (PBX) Fax: +90 216 330 91 81 E-mail: info@adakem.com Web: ww.adakem.com

CHEMICAL PROPERTIES	
PURITY	≥ 98.0
ACID CONTENT	
MOISTURE AMOUNT	
COLOUR (APHA)	
INHIBITOR	
PHYSİCAL PROPERTIES	
APPEARANCE	Clear white to pale yellow liquid
PHYSICAL STATE	Liquid
ODOR	Repulsive odor
DENSITY	858 kg/m3 at 20°C
BOILING POINT	233°C
FREEZING POINT	-30°C
FLASH POINT	97 °C- closed cup
VISCOSITY	36 mPa.s (cP) at 20°C
VAPOR PRESSURE	0.03 mbar (hPa) at 20°C

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SAFETY INFORMATİON	
HAZARD PICTOGRAM(S)	
HAZARD STATEMENT(S)	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H410 Very toxic to aquatic life with long lasting effects.
PRECAUTIONARY STATEMENT(S)	P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves. P302 + P352 IF ON SKIN: Wash with plenty of water.
STORAGE CLASS	Storage class (TRGS 510): 10: Combustible liquids
STORAGE CONDITIONS	Tightly closed.
DISPOSAL	No information.
TRANSPORT INFORMATION	**UN number:** ● ADR/RID: 3082 ● IMDG: 3082 ● IATA: 3334 **UN proper shipping name:** ● ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (tert-Dodecanethiol) ● IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (tert-Dodecanethiol) ● IATA: Aviation regulated liquid, n.o.s. (tert-Dodecanethiol) (tert-Dodecanethiol) **Transport hazard class(es)** ● ADR/RID: 9 ● IMDG: 9

	• IATA: 9 **Packaging group:** • ADR/RID: III • IMDG: III • IATA: III **Environmental hazards:** • ADR/RID: yes • IMDG Marine pollutant: yes • IATA: no

For more information, check the SAFETY DATA SHEET or get contact with us.