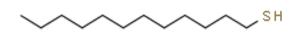


# **N-DODECYL MERCAPTAN**



IUPAC NAME: dodecane-1-thiol CHEMICAL FORMULA: C<sub>12</sub>H<sub>26</sub>S CAS NO: 112-55-0 MOLECULAR WEIGHT: 202.44 g/mol PACKING: Barrel, 170 KG

## **PRODUCT DESCRIPTION:**

n-Dodecyl mercaptan, also known as lauryl mercaptan or dodecane thiol, is an organic compound with the chemical formula C12H26S. It is a colourless liquid with a strong, characteristic odor. It is used as a raw material for the production of fragrances, as well as in the manufacture of other chemicals such as insecticides, fungicides, and plasticizers. It is also used as a reagent in organic synthesis.

### **PROPERTIES:**

Some features and benefits of n-dodecyl mercaptan include:

- Strong odor: The strong, characteristic odor of n-dodecyl mercaptan makes it an effective warning agent for detecting gas leaks in natural gas pipelines.
- Versatility: It can be used as a raw material for the production of fragrances, as well as in the manufacture of other chemicals such as insecticides, fungicides, and plasticizers. It is also used as a reagent in organic synthesis.
- Solubility: It is easily soluble in most organic solvents, which makes it a useful intermediate in the production of other chemicals.
- Low toxicity: It has relatively low toxicity and is considered to be relatively safe to handle when proper precautions are taken.
- Corrosion inhibitor: It can be used as corrosion inhibitor in some application.
- Lubricant additive: It can also be used as lubricant additive in some applications.

Overall, n-dodecyl mercaptan is a versatile chemical with a range of uses in the production of fragrances, insecticides, fungicides, plasticizers, and other chemicals, as well as in organic synthesis and as a warning agent for gas leaks.

### **APPLICATION AREAS:**

**n-Dodecyl mercaptan** is primarily used as a raw material for the production of fragrances and as an intermediate in the manufacture of other chemicals such as insecticides, fungicides, and plasticizers. It is also used as a reagent in organic synthesis.

It's also used as an odorant to detect gas leaks in natural gas pipelines, as the low odor threshold of n-dodecyl mercaptan makes it an effective warning agent.

It is also used as intermediate in the manufacturing of other chemicals, as a corrosion inhibitor, and as a lubricant additive.

### IT IS APPLIED IN THE PRODUCTION OF:



- Polymerization
- Polymer Modification
- Rubber Industry
- Adhesives and Sealants
- Plastic Industry
- Emulsion Polymerization
- Lubricant Additives
- Surfactant Synthesis



CHEMICAL PROPERTIES		
PURITY	≥ 98.0	
ACID CONTENT		
MOISTURE AMOUNT		
COLOUR (APHA)		
INHIBITOR		
PHYSICAL PROPERTIES		
APPEARANCE	Colourless	
PHYSICAL STATE	Liquid	
ODOR	Characteristic	
DENSITY	0.844 g/cm3 at 20 °C	
BOILING POINT	275 °C	
FREEZING POINT	-7 °C	
FLASH POINT	closed cup: 128 °C	
VISCOSITY	3,24 mPa.s, at 20 °C	
VAPOR PRESSURE	1,2 Pa, at 25 °C	



SAFETY INFORMATION	
HAZARD PICTOGRAM(S)	
HAZARD STATEMENT(S)	H314: Skin corrosion H318: Serious eye damage H317: Skin sensitisation H400: Acute aquatic toxicity H410: Chronic aquatic toxicity
PRECAUTIONARY STATEMENT(S)	P260: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P273: Avoid release to the environment. P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
STORAGE CONDITIONS	Keep containers tightly closed in a cool, well-ventilated place. Store away from heat and ignition sources. Provide an impermeable floor. Provide electrical earthing of equipment and electrical equipment usable in explosive atmospheres. Provide a catch-tank and anti-corrosion protected electrical equipment in a bunded area. Provide waterproof electrical equipment.
DISPOSAL	Destroy product by oxidation with dilute solutions of: Hydrogen peroxide or sodium hypochlorite or destroy the product by incineration (in accordance with local and national regulations).
TRANSPORT INFORMATION	UN number: ADR/RID: 1760 IMDG: 1760 IATA: 1760 UN proper shipping name: ADR/RID: CORROSIVE LIQUID, N.O.S.(DODECANETHIOL) IMDG: CORROSIVE LIQUID, N.O.S.(DODECANETHIOL) IATA: CORROSIVE LIQUID, N.O.S.(DODECANETHIOL) ADR/RID: 8 IMDG: 8



•	• IATA: 8
	Packaging group:
	ADR/RID: III
	IMDG: III
	• IATA: III
	Environmental hazards:
	ADR/RID: yes
	IMDG Marine pollutant: yes
	IATA: yes