

# Carbon Disulfide

## Carbon disulfide

Carbon Disulfide (CS<sub>2</sub>) is a colorless, dense, highly refractive, volatile, flammable and toxic liquid. CS<sub>2</sub> plays a vital role in many of today's industrial processes.

CAS number  
75-15-0

EINECS/ELINCS No.  
200-843-6

Molecular weight  
76.14

Molecular formula  
CS<sub>2</sub>

### Specifications

Appearance	Clear colorless liquid
Benzene	≤ 30 mg/kg
Boiling range, 1 bar, 46.0-46.4°C	≥ 98 vol %
CS <sub>2</sub> content, calculated by difference from water free CS <sub>2</sub>	≥ 99.99 %
Density, 20°C	1.262-1.266 kg/l
Hydrogen Sulphide (H <sub>2</sub> S)	Lead-Acetate-Test negative, max. 3 ppm
Iron	≤ 1 mg/kg
Residue on evaporation	≤ 20 mg/kg

### Properties

Boiling point, 1 bar	46.3 °C
Refractive Index, 20°C	1,627
Solubility CS <sub>2</sub> in water, 20°C	2,1 g/l
Solubility water in CS <sub>2</sub> , 20°C	0,1 g/l
Vapor pressure, 20°C	400 mbar

## Applications

Carbon Disulfide ( $\text{CS}_2$ ) is an effective solvent for oils, waxes, sulfur and many organic compounds.  $\text{CS}_2$  is a main building block in the production of agricultural chemicals including some of the fungicides and soil fumigants that allow farmers to increase yields. It is also used to produce industrial chemicals like xanthates used in mining and rayon used in clothing.  $\text{CS}_2$  is also consumed in the production of a variety of pharmaceuticals.

## Storage

Cool and padded with nitrogen or water. Requirements regarding storage tank design are available on request.

## Packaging and transport

Carbon Disulfide is delivered in Rail tank cars, ISO Tank Containers and Road tankers

UN number	1131(CARBON DISULPHIDE)
Hazard Identification No.	336

## Safety and handling

Carbon Disulfide is highly flammable and toxic and is classified as a hazardous substance. See our safety data sheet (SDS) for further information.

All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Nouryon, however, makes no warranty as to accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nouryon does not accept any liability whatsoever arising out of the use of or reliance on this information, or out of the use or the performance of the product. Nothing contained herein shall be construed as granting or extending any license under any patent. Customer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes. The information contained herein supersedes all previously issued information on the subject matter covered. The customer may forward, distribute, and/or photocopy this document only if unaltered and complete, including all of its headers and footers, and should refrain from any unauthorized use. Don't copy this document to a website.

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The logo for Nouryon, featuring a stylized blue 'N' followed by the word 'ouryon' in a blue sans-serif font.