

Product Data Sheet

Carbon Disulfide

Nomenclature	Carbon Disulfide Carbon Bisulfide		
Formula	CS ₂		
Product Identification Number	UN 1131		
CAS Number	75-15-0		
Molecular Weight	76.14		
Description	Carbon Disulfide is a colorless, dense, highly refractive, volatile, flammable and toxic liquid.		
Available Grades	Technical Grade		
Typical Composition	Parameter	Specification	Test Method
	Carbon Disulfide (%)	99.99% minimum (by difference)	QCL331
	Residue on Evaporation (ppm)	20 max.	QCL328
	Hydrogen Sulfide (H ₂ S) (ppm)	1.5 max.	QCL457
Typical Properties	Color (APHA)	20 max.	QCL326
	Specific Gravity (15.6°C/15.6°C)	1.260 – 1.274	QCL332
	Flash Point	-30°C (-22°F)	-----
	Boiling Point	46.25°C (115.3°F)	-----
	Density (lb./gal) at 20°C (68°F)	10.539	-----
	Solubility	Slightly soluble in water; highly soluble in organic solvents	-----
Shipping Containers	Portable Tanks (2,650 lbs. net weight) ISO Tank Containers (22 and 25 short tons net weight) Rail Tank Cars (90 short tons net weight)		
Uses	Agriculture	In manufacture of fungicides, soil fumigants, and insecticides	
	Chemical	In manufacture of thiocyanates; Intermediate in synthesis of organic sulfur chemicals	
	Metallurgy	In manufacture of xanthates and xanthides as flotation agents in the mining industry	
	Petroleum	Solvent for wax deposits in oil well fittings; In catalyst regeneration	
	Rubber	In manufacture of vulcanization accelerators; As a solvent for natural and synthetic rubber.	

Uses (continued)	Synthetics	In manufacture of rayon, cellophane, food casings and sponges
	Textiles	In manufacture of non-woven fabrics