

Tetrafluoro methane

CF₄

Carbon tetrafluoride R14

Marking

CAS

75-73-0

Characterization acc. ADR

UN 1982
TETRAFLUOROMETHANE
(REFRIGERANT GAS R
14),2.2,(C/E)

Cylinder Marking



Essential properties

Liquified gas, heavier than air, colorless, odorless

Symbols of risks



Shoulder color: bright green

For additional safety information see safety data sheet *-CF4-116

Description

Colourless, nontoxic gas. In low concentrations odorless, in higher concentrations slightly etheric odor. Chemically und thermic very stable.

Materials

Cylinders and valves: any usual materials

Seals: PTFE, PVDF, PA, PP

Physical Properties			
molecular weight	88,005 kg/kmol	vapour pressure at 20°C	
critical point		gas density at 0°C and 1,013 bar	3,946 kg/m ³
temperature	227,6 K	density ratio to air	3,052
Pressure	37,4 bar	gas density at 15°C and 1 bar	3,688 kg/m ³
density	0,630 kg/l	conversion factor	
triple point		liquid at Ts to m ³ gas (15°C, 1 bar)	
temperature	89,56 K	virial coefficient	
Pressure	0,00109 bar	Bn at 0°C	-4,9*10 ⁻³ bar ⁻¹
boiling point		B30 at 30°C	-3,4*10 ⁻³ bar ⁻¹
temperature	145,16 K; -128 °C	gaseous state at 25°C and 1 bar	
liquid density	1,6096 kg/l	specific heat capacity cp	0,6954 kJ/kg K
evaporation heat	134,20 kJ/kg	thermal conductivity	158*10 ⁻⁴ W/m K
		dynam. viscosity	17,41*10 ⁻⁶ Ns/m ²