

Marking**CAS****Characterization acc. ADR****Cylinder Marking**

7439-90-9
UN 1056 KRYPTON,
COMPRESSED, 2.2,(E)



Shoulder color: bright green

Essential properties

compressed gas, heavier than air, colorless, odorless

Symbols of risks

For additional safety information see safety data sheet *-KR-077A

Description

Colourless, odorless rare gas. In closed rooms the breathing air is displaced (danger of asphyxiation!). Under special conditions krypton may react with fluorine to the unstable compounds kryptondi- resp. -tetrafluoride.

Materials

Cylinders and Valves: any usual materials

Seals: PTFE, PCTFE, PVDF, PA, PP; IIR, NBR, CR, FKM, Q, EPDM

Physical Properties			
molecular weight	83,80 kg/kmol	vapour pressure at 20°C	
critical point		gas density at 0°C and 1,013 bar	3,7491 kg/m ³
temperature	209,4 K	density ratio to air	2,8997
Pressure	55,02 bar	gas density at 15°C and 1 bar	3,506 kg/m ³
density	0,919 kg/l	conversion factor	
triple point		liquid at Ts to m ³ gas (15°C, 1 bar)	
temperature	115,777 K	virial coefficient	
Pressure	0,73055 bar	Bn at 0°C	-2,74*10 ⁻³ bar ⁻¹
boiling point		B30 at 30°C	-1,95*10 ⁻³ bar ⁻¹
temperature	119,802 K; -153 °C	gaseous state at 25°C and 1 bar	
liquid density	2,413 kg/l	specific heat capacity cp	0,24809 kJ/kg K
evaporation heat	107,41 kJ/kg	thermal conductivity	95,1*10 ⁻⁴ W/m K
		dynam. viscosity	25,5*10 ⁻⁶ Ns/m ²