

Marking

CAS

Characterization acc. ADR

Cylinder Marking

7782-44-7
UN 1072 OXYGEN,
COMPRESSED, 2.2 (5.1),(E)



Shoulder color: white

Essential properties

compressed gas, colorless, odorless, oxidizing

Symbols of risks



For additional safety information see safety data sheet *-O2-097A

Description

Materials

Physical Properties			
molecular weight	31,9988 kg/kmol	vapour pressure at 20 °C	
critical point		gas density at 0 °C and 1,013 bar	1,429 kg/m ³
temperature	154,481 K	density ratio to air	1,1052
Pressure	50,422 bar	gas density at 15 °C and 1 bar	1,337 kg/m ³
density	0,4361 kg/l	conversion factor	
triple point		liquid at Ts to m ³ gas (15 °C, 1 bar)	0,8534
temperature	54,359 K	virial coefficient	
Pressure	0,00149 bar	Bn at 0 °C	-0,97*10 ⁻³ bar ⁻¹
boiling point		B30 at 30 °C	-0,60*10 ⁻³ bar ⁻¹
temperature	90,19 K; -183 °C	gaseous state at 25 °C and 1 bar	
liquid density	1,1410 kg/l	specific heat capacity cp	0,9196 kJ/kg K
evaporation heat	212,5 kJ/kg	thermal conductivity	261,5*10 ⁻⁴ W/m K
		dynam. viscosity	20,5*10 ⁻⁶ Ns/m ²