

R-744 Carbon dioxide

Chemical name: Carbon dioxide
Formula: CO₂

Specification / grade

Purity		≥	99.99	vol %
Impurity	N ₂	<	60	ppm
	O ₂	<	15	ppm
	H ₂ O	<	10	ppm
	Specifications are based on the vaporized liquid phase			

Cylinder / content specification

	V _{cyl} (l)	m _{gas} (kg)	Product code
Cylinders	10	7.5	3710110 *
	50	37.5	3710150 *
Bundle (12 cyl.)	600	450	3710560 **
	* with gas/liquid draw-off		
	** with liquid draw-off (by means of dip-tube)		

Cylinder characteristics

Colour according to standard	NEN-EN 1089-3	
Shoulder	Dusty grey	RAL 7037
Cylindrical part	Dusty grey	RAL 7037
Connection according to NEN 3268	RU 1	

Physical properties

Molecular weight (kg/kmol)	44.01		
Density gas (kg/m ³ at 1,013 bar and 0 °C)	1.977		
Relative density (air = 1)	1.529		
Boiling point (°C) (K)	-78.5	respective	194.7
Critical temperature (°C) (K)	31.1	respective	304.2
Vapour pressure (bar at 20 °C)	57		

Additional information

Material Safety Data Sheet	Carbon dioxide (VIB nr. 8377)
Product description	Colourless and odourless under pressure liquefied gas

Applications

Cooling agent for refrigeration systems	
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