

HiQ[®] Specialty Gases Finder.



Carbon dioxide CO₂

R-744



ADR Class 2, 2A
3A (Refrigerated liquid)



DOT Class 2.2

CAS: 124-38-9

EC: 204-696-9

UN: 1013; 2187 (Refrigerated liquid)

HiQ Carbon dioxide 4.0

HiQ Product Code: 154

Purity \geq 99.99%

Impurities [ppm]

99.99% H₂O \leq 10 O₂ \leq 10 N₂ \leq 50

HiQ Carbon dioxide 4.5

HiQ Product Code: 155

Purity \geq 99.995%

Impurities [ppm]

99.995% H₂O \leq 5 O₂ \leq 5 CnHm \leq 2 N₂ \leq 10

HiQ Carbon dioxide 5.0

HiQ Product Code: 156

Purity \geq 99.999%

Impurities [ppm]

99.999% H₂O \leq 2 O₂ \leq 2 CnHm \leq 1 CO \leq 1 N₂ \leq 5

VERISEQ Process Carbon dioxide (Pharmaceutical grade)

HiQ Product Code: 6318

Purity \geq 99.5%

Impurities [ppm]

99.5% H₂O \leq 67 NH₃ \leq 25 CO \leq 5 NO_x \leq 2 H₂S \leq 1 SO₂ \leq 2 Total Sulphur \leq 1

VERISEQ Research Carbon dioxide (Pharmaceutical grade)

HiQ Product Code: 2034

Purity \geq 99.99%

Impurities [ppm]

99.99% H₂O \leq 10 NH₃ \leq 25 CO \leq 5 NO_x \leq 2 H₂S \leq 1 SO₂ \leq 2 Total Sulphur \leq 1 O₂+N₂ \leq 50

HiQ Carbon dioxide 4.5 SFC

HiQ Product Code: 157

Purity \geq 99.995%

Impurities [ppm]

99.995% H₂O \leq 1 O₂ \leq 5 CnHm (as CH₄) \leq 5 Halocarbons \leq 10 ppb CnHm (as C₁₆H₃₄) \leq 50 ppb
Non-volatile residue \leq 1

HiQ Carbon dioxide 5.0 SFE

HiQ Product Code: 158

Purity \geq 99.999%

This is a promotional data sheet, for a full Safety Data Sheet, please contact your local Linde subsidiary

Linde AG

Linde Gases Division, Seitnerstrasse 70, 82049 Pullach, Germany, Phone +49 89 7446 1661, hiq@linde-gas.com, http://hiq.linde-gas.com

HiQ[®] Specialty Gases Finder.

Impurities [ppm]

99.999% H₂O≤1 O₂≤2 C_nH_m (as CH₄)≤1 Halocarbons≤2 ppb C_nH_m (as C₁₆H₃₄)≤10 ppb
Non-volatile residue≤1

Typical Filling Pressure: 15 °C: 51 bar(a) 70 °F: 830 psi(g)

Characteristics

Liquefied, colourless gas. Asphyxiant in high concentrations.

Substance not included in Dir. 67/548/EEC Annex 1 and in Reg. 1272/2008 table 3.1.

Hazard classifications

EC C&L

Proposed by the Industry

Signal Word: **WARNING**



H-Statements

Physical Hazards

Compressed Gas -> H280:

Contains gas under pressure; may explode if heated

Refrigerated Gas -> H281:

Contains refrigerated gas, may cause cryogenic burns or injury

Health Hazards

EIGA-As:

Asphyxiant in high concentrations

Applications of this gas in pure form, or component in a gas mixture.

Aerosol propellant, Agriculture & horticulture, Air conditioning & refrigeration, Air quality monitoring, Anaesthetic, Analytical chemistry, Atomic Adsorption Spectroscopy (AAS), Beverages, beer & wine, Calibration gas mixtures, Combustion oxidation, Cryosurgery, Cutting metals, Emissions control, Environmental monitoring, Fibre optics, Fire suppression, Flame photometry, Foam blowing, Food processing & preservation, Fuel for energy, heat & propulsion, Fumigation, Gas chromatography (GC), Horticulture & agriculture, Instrument calibration, Instrument setup & operation, Laboratory & process control instrumentation, Lasers, Leak detection, Medical applications, Metals cutting & welding, Metals refining & mining, Mining & metals refining, Optical fibres, Paints, pH control, Pharmaceuticals, Process control instrument calibration, Process control instrument operation, Propellant for aerosols, Refrigeration & air conditioning, Stack emissions testing, Sterilization, Supercritical fluid extraction (SFE), Water treatment & purification, Welding metals

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