

**PRODUCT
SPECIFICATION**



**CARBON DIOXIDE
BEVERAGE QUALITY**

Number of revisions: 15
Date of last revision: 30.05.2023

General Information:

Chemical formula: CO ₂ Molecular weight: 44.01	CAS №: 124-38-9 EO №: 204-696-9	Neochim PLC code: 17-01
Appearance: colourless easily flowing liquid Use: production of carbonated drinks; production of chemicals; packaging gas for food; calibration gas; plants growth promoter; fire-extinguishers; organic compounds solvent; refrigerant in food industry; shielding gas in welding; inert gas.		

Specifications:

Indices	Typical Values	Limit Values
Carbon dioxide (CO ₂), % v/v	99.97	min. 99.95
Water vapors at pressure 101.3 x 10 ⁻³ MPa and temperature 20°C, g/m ³	0.0365	max. 0.0365
Oxygen (O ₂), ppm v/v	20.0	max. 30.0
Test acidity	passes the test	to pass the test
Carbon monoxide (CO), ppm v/v	2.0	max. 10.0
Ammonia (NH ₃), ppm v/v	0.25	max. 2.5
Nitrogen oxides (NO _x), ppm v/v	0.0	max. 5.0
Phosphine (PH ₃), ppm v/v	0.0	max. 0.3
Acetaldehyde (C ₂ H ₄ O), ppm v/v	0.1	max. 0.2
Vinyl chloride (C ₂ H ₃ Cl), ppm v/v	0.0	max. 0.5
Hydrogen (H ₂), ppm v/v	15.0	max. 20.0
Nitrogen (N ₂), ppm v/v	100.0	max. 120.0
Non-volatile residue, ppm v/v	7.0	max. 10.0
Non-volatile organic residue, ppm v/v	2.0	max. 5.0
Volatile hydrocarbons (as CH ₄), ppm v/v	3.0	max. 30.0
Volatile non-methane hydrocarbons, ppm v/v	3.0	max. 20.0
Aromatic hydrocarbons, ppb v/v	10.0	max. 20.0
Oil by camphor test	passes the test	to pass the test
Odour and colour by sensitivity test	passes the test	to pass the test
Total sulphur (S), ppm v/v	0.05	max. 0.1
Sulphur dioxide (SO ₂), ppm v/v	0.5	max. 1.0
Appearance by test	passes the test	to pass the test

Packaging:

Tank trucks, steel cylinders, customer's packaging

Date of issue: 07.05.1992

These data are based on our current knowledge, experience and technical equipment. They do not relieve customers of carrying out their own tests and experiments, due to the great diversity of possible effects in processing and application of our products. They do not imply any legally binding assurances of certain properties and applications. The recipients of our products ought to abide by the existing legislation and regulations as well as possible reserved rights

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