

CARBON DIOXIDE BEVERAGE QUALITY

Number of revisions: 11
Date of last revision: 11.01.2016

General Information:

Chemical formula: CO₂

Molecular weight: 44.01

Appearance: colourless easily flowing liquid

Use: carbonation of drinks, manufacture of chemicals products,
refrigeration, firefighting, shielding gas in welding and others

CAS No.: 124 – 38 – 9

EC No.: 204 – 696 – 9

Neochim PLC code: 17 – 01

Specifications:

Indices	Typical Values	Limit Values
Carbon dioxide, % v/v	99.97	min. 99.5
Water vapours at pressure 101,3 x 10 ⁻³ MPa and temperature 20°C, g/m ³	0.0365	max. 0.0365
Oxygen, ppm v/v	20	max. 30
Test acidity	passes the test	passes the test
Carbon monoxide, ppm v/v	2	max. 10
Ammonia, ppm v/v	0.25	max. 2.5
Nitrogen oxides, ppm v/v	0.0	max. 5
Phosphine, ppm v/v	0.0	max. 0.3
Acetaldehyde, ppm v/v	0.1	max. 0.2
Vinyl chloride, ppm v/v	0.0	max. 0.5
Hydrogen, ppm v/v	15	max. 20
Nitrogen, ppm v/v	100	max. 120
Non-volatile residue, ppm v/v	7	max. 10
Non-volatile organic residue, ppm v/v	2	max. 5
Volatile hydrocarbons (as CH ₄), ppm v/v	3	max. 30
Volatile non-methane hydrocarbons, ppm v/v	3	max. 20
Aromatic hydrocarbons, ppb v/v	10	max. 20
Oil by camphor test	passes the test	passes the test
Odour and colour by sensitivity test	passes the test	passes the test
Total sulphur, ppm v/v	0.05	max. 0.1
Sulphur dioxide, ppm v/v	0.5	max. 1
Appearance by test	passes the test	passes the test

Packing:

Tank trucks, steel cylinders

Date of issue: 07.05.1992

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