



## PURITY SPECIFICATIONS - BULK SALES

### Food Grade Carbon Dioxide

ICS-PRM-0102-S; Revision 1, Effective Date 02/28/06

Chemical Symbol	CO <sub>2</sub>
Physical State in Container	Liquid (All samples obtained from the liquid phase and units in ppm {vol/vol}, unless otherwise stated.)
Minimum Purity (vol/vol)	99.5%
Maximum Dew Point	-68 °F
Water	20 ppm
Total Hydrocarbons (as Methane)	50 ppm
Oxygen	50 ppm
Carbon Monoxide	10 ppm
Total Sulfur Content	0.5 ppm
<b>If the total sulfur content exceeds 0.5 ppm (v/v) as sulfur, then the species shall be determined separately and the following limits apply:</b>	
*Carbonyl Sulfide	0.5 ppm
*Hydrogen Sulfide	0.5 ppm
*Sulfur Dioxide	5 ppm
Nitric Oxide / Nitrogen Dioxide	5 ppm (Note 2)
Acetaldehyde	0.5 ppm
Nonvolatile Residues	10 ppm (wt/wt)
Odor, Taste, Appearance	Free of foreign odor, taste, color (Note 1)
Meets or Exceeds CGA-G6.2-2004	Quality Verification Level G, H

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Note 1: In water solution.

Note 2: Total Nitric Oxide and Nitrogen Dioxide shall not exceed 5 ppm.