

## CERTIFICATE OF CONFORMANCE

**Keen Compressed Gas Co.** Is Accredited to the ISO/IEC 17025:2017 Testing and Calibration Laboratory Standard. Keen's Quality Management System, Enables Keen to Provide the Highest Level of Testing, Calibration, and Traceability to Meet or Exceed the Minimum Specifications Listed for the Carbon Dioxide Grade Requested.

## CARBON DIOXIDE (CO<sub>2</sub>), LIQUID

	Refrigerated Liquid <sup>5,6</sup>	Refrigerated Liquid (Food Grade) <sup>4,6</sup>	Refrigerated Liquid (USP) <sup>1</sup>
<b>Minimum Purity<sup>3</sup>:</b>	99.9	99.9	99.0
<b>Odor<sup>3</sup>:</b>	NT	None	None
<b>Moisture<sup>3,6</sup>:</b>	≤ 32 ppm	≤ 20 ppm	≤ 20 ppm
<b>Ammonia<sup>3,6</sup>:</b>	NT	NT	≤ 25 ppm
<b>Carbon Monoxide<sup>3,6</sup>:</b>	NT	≤ 10 ppm	≤ 10 ppm
<b>Nitrogen Dioxide<sup>3,6</sup>:</b>	NT	SUM ≤ 5.0 ppm	≤ 2.5 ppm
<b>Nitric Oxide<sup>3,6</sup>:</b>	NT		≤ 2.5 ppm
<b>Sulfur Dioxide<sup>3,6</sup>:</b>	≤ 5.0 ppm	≤ 5.0 ppm	≤ 5.0 ppm
<b>Hydrogen Sulfide<sup>3,6</sup>:</b>	NT	NT	≤ 1.0 ppm
<b>Dew Point:</b>	-61°F	-68°F	-68°F
<b>CGA Connection:</b>	320	320	320
<b>Lot Label Tracking:</b>	No	Yes	Yes
<b>TECHNICAL INFORMATION</b>			
<b>UN ID:</b>	2187	<b>Molecular Weight:</b>	44.01
<b>DOT Classification:</b>	2.2 Non-Flammable Gas	<b>Specific Volume:</b>	8.74 ft <sup>3</sup> /lb.
<b>DOT Ship Name:</b>	Carbon Dioxide, Refrigerated Liquid	<b>CAS NO:</b>	124-38-9

**Notes:**

1. USP- Medical Carbon Dioxide, United States Pharmacopeia
2. NT – Not Tested
3. Certificate of Batch or Individual Analysis Specification Results Available Upon Request – Gaseous Use
4. Meets USDA and CGA G-6.2 Food Grade Specifications
5. Meets AWS A5.32 (ISO 14175)-C1-CO<sub>2</sub> - Gaseous Use
6. Specification Based on Raw Material Bulk Supplier Certificate of Analysis (USP Excluded)