



## CERTIFICATE OF CONFORMANCE

**Keen Compressed Gas Co.** Quality Control Program, Enables Keen To Meet or Exceed the Minimum Specifications Listed For The Product Grades Named Below In Compliance With Standard Operating Procedures, Industry and/or Government Guidelines. The Product Grades Below Are Eligible To Be Received With A Certificate of Batch or Individual Cylinder Analysis Upon Request.

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

	Industrial	Beverage <sup>4</sup>	Bone Dry	Coleman	Research	USP <sup>1</sup>
<b>Minimum Purity:</b>	99.0	99.9	99.8	99.99	99.999	99.2
<b>Odor:</b>	None	None	None	None	None	NT
<b>Taste:</b>	None	None	None	None	None	NT
<b>Moisture <sup>3,4</sup>:</b>	≤ 32 ppm	≤ 19 ppm	≤ 10 ppm	≤ 10 ppm	≤ 2.0 ppm	≤ 20 ppm
<b>Hydrocarbons:</b>	≤ 50 ppm	≤ 50 ppm	≤ 2.0 ppm	≤ 10 ppm	≤ 0.5 ppm	NT
<b>Ammonia:</b>	NT	NT	NT	NT	NT	≤ 25 ppm
<b>Carbon Monoxide<sup>4</sup>:</b>	NT	≤ 10 ppm	NT	NT	≤ 1 ppm	≤ 10 ppm
<b>Nitrogen Dioxide</b>	NT	Sum ≤ 2.5 ppm <sup>4</sup>	NT	NT	NT	≤ 2.5 ppm
<b>Nitric Oxide:</b>	NT		NT	NT	NT	≤ 2.5 ppm
<b>Sulfur Dioxide:</b>	≤ 1.0 ppm	≤ 1.0 ppm	NT	NT	NT	≤ 5.0 ppm
<b>Hydrogen Sulfide:</b>	NT	NT	NT	NT	NT	NT
<b>Hydrogen:</b>	NT	NT	NT	NT	NT	NT
<b>Nitrogen <sup>3</sup>:</b>	NT	NT	NT	≤ 70 ppm	≤ 8.0 ppm	NT
<b>Oxygen <sup>3</sup>:</b>	NT	NT	NT	≤ 20 ppm	≤ 2.0 ppm	NT
<b>Dew Point:</b>	-61°F	-68°F	-76°F	-76°F	-97°F	-67°F
<b>CGA Connection:</b>	320	320	320	320	320	970
<b>Lot Label Tracking <sup>3,4</sup>:</b>	No	Yes	Yes	Yes	Yes	Yes
<b>TECHNICAL INFORMATION</b>						
<b>UN ID:</b>	1013		<b>Molecular Weight:</b>		44.01	
<b>DOT Classification:</b>	2.2 Non-Flammable Gas		<b>Specific Volume:</b>		8.74 cf/lb	
<b>DOT Ship Name:</b>	Carbon Dioxide		<b>CAS NO:</b>		124-38-9	

**Notes:**

1. USP- Medical Carbon Dioxide, United States Pharmacopeia
2. NT – Not Tested
3. Certificate of Analysis Specification Results Available Upon Request
4. Meets USDA and CGA G-6.2 Food Grade Specifications