



Accreditation No: 103049



4063 New Castle Ave, Bldg. 4061
New Castle, DE 19720
www.keengas.com
P: (302) 594-4545

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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 Specification Listed for the Nitrogen Grade Requested.

NITROGEN (N₂), LIQUID

	Refrigerated Liquid ^{1,5,6,8}	Refrigerated Liquid Food Grade ^{1,5,8}	NF Refrigerated Liquid ^{1,2,8}
Minimum Purity^{4:}	99.998	99.0	99.0
Carbon Dioxide^{4,7:}	≤ 5.0 ppm	NT	NT
Carbon Monoxide^{4,7:}	≤ 5.0 ppm	≤ 10 ppm	≤ 10 ppm
Oxygen^{4:}	≤ 5.0 ppm	NT	NT
Odor^{4:}	NT	None	None
Total Hydrocarbon^{4:}	≤ 5.0 ppm	NT	NT
Moisture^{4:}	≤ 3.0 ppm	≤ 3.0 ppm	≤ 3.0 ppm
Dew Point:	-92°F	-92°F	-92°F
Boiling Point:	-320°F	-320°F	-320°F
CGA Connection:	295 (Liquid Use) 580 (Gas Use)	295 (Liquid Use) 580 (Gas Use)	295 (Liquid Use) 580 (Gas Use)
Lot Label Tracking:	Yes	Yes	Yes
TECHNICAL INFORMATION			
UN ID:	1977	Molecular Weight:	28 g/mol
DOT Classification:	2.2 Non-Flammable Gas	Specific Volume:	13.89 ft ³ /lb
DOT Ship Name:	Nitrogen, Refrigerated Liquid	CAS NO:	7727-37-9

Notes:

1. Produced by Air Liquefaction Process Which Includes Trace Quantities of Neon, Helium & Argon
2. NF – Medical Nitrogen, National Formulary Specification
3. NT – Not Tested
4. Certificate of Analysis Specification Results Available Upon Request
5. Meets FDA-NF, USDA and CGA G-10.1 Food Grade Specifications
6. Meets MIL-PRF-27401 Type II, Grade B Specification
7. Specification Based on Raw Material Bulk Supplier Certificate of Analysis (NF Excluded)
8. Meets CGA Type 2, QVL Grade B