



Matheson Tri-Gas, Inc.
909 Lake Carolyn Parkway
Irving, TX 75039

Medical Grade Carbon Dioxide

This certifies that all product labeled as Carbon Dioxide, USP provided by Matheson Tri-Gas meets and exceeds the USP monograph for Medical Grade Carbon Dioxide.

CHARACTERISTIC	CGA G-6.2 QVL E	UNITED STATES PHARMACOPEIA (USP)	MATHESON MEDICAL GRADE
	MEDICAL		
Identification	Pass	Pass	Pass
Carbon Dioxide (min)	99.0 %	NLT 99.0 %	≥ 99.2 %
Acetaldehyde	-	-	-
Ammonia	25 ppm	NMT 0.0025 %	≤ 25 ppm
Acidity	-	-	-
Benzene	-	-	-
Carbon Monoxide	10 ppm ^a	NMT 0.001 %	≤ 10 ppm ^a
Carbonyl Sulfide	-	-	-
Hydrogen Cyanide	-	-	-
Methanol	-	-	- ppm
Nitric Oxide	2.5 ppm ^a	NMT 2.5 ppm	≤ 2.5 ppm ^a
Nitrogen Dioxide	2.5 ppm	NMT 2.5 ppm	≤ 2.5 ppm
Oxygen	-	-	-
Phosphine	-	-	-
Sulfur Dioxide	5 ppm	NMT 5 ppm	≤ 5 ppm
Total Sulfur	-	-	-
Total Hydrocarbon Content (as methane)	-	-	-
Hydrogen Sulfide	1 ppm ^a	NMT 1 ppm	≤ 1 ppm ^a
Nonvolatile Residues	- ppm	-	-
Oil/Grease	-	-	-
Odor/Taste	b	-	-
Water	200 ppm	NMT 150 mg/m ³	≤ 150 mg/m ³

a Vapor phase.

b Free of Foreign Odor or Taste.

Certified By (if applicable):

Date: