

1. Acceptable USP Test Methods & Specifications for Carbon Dioxide

USP Test	Method	Specification
Identification (V)	CO ₂ Detector Tube (V) Draeger Tube 8101811 See CO2 100 a14	Pass = Complete Color Change
Assay (Purity) (V or L) ≥ 99.0%	Chemical Absorption (CA) or Gas Chromatograph (GC)	Not more than 1.0% of air is present, determined as directed in the CO2 100 a12 or a14 Assay.

Contaminant Tests	Method	Specification
Water (V)	Draeger Tube 6728531 with 2 lpm flowmeter for 25 minutes	≤ 150 mg/cubic meter
Ammonia (L)	Draeger Tube CH 20501	≤ 25 ppm
Hydrogen Sulfide (V)	Draeger Tube 6719001 or 8101461, 8101991	≤ 1 ppm
Nitric Oxide (V)	Draeger Tube CH 29401 or 8103661	≤ 2.5 ppm
Carbon Monoxide (V)	Draeger Tube CH 25601 or 6733051	≤ 10 ppm
Nitrogen Dioxide (L)	Draeger Tube CH 29401 or 8103661	≤ 2.5 ppm
Sulfur Dioxide (L)	Draeger Tube CH 31701	≤ 5 ppm

The cylinder/container tests are to be completed using the indicated phase (V=vapor and L=liquid).
See CO2 100 a14 for sample phase guidance for bulk storage and transportation containers.

Note: Draeger Detector Tubes used as examples only. See I 240 a1 for cross-referenced alternatives