

Pure Gases

Acetylene (C₂H₂)

A colorless, flammable gas, with a garlic-like odor, that is dissolved in acetone.

WARNING: Do not discharge this gas at pressures exceeding 15 psig.

| Purity Specifications | Minimum Purity | Air | Phosphine | Total Sulfurs |
|------------------------|----------------|-------|-----------|---------------|
| Atomic Absorption (AA) | 99.6% | <0.4% | < 15 | < 10 |

Concentrations given are ppm by volume unless otherwise specified.

| PRODUCT | Ordering Information | | | | | Equipment Recommendations | | |
|---|----------------------|--------------------------|-----------------------------|----------------|----------------------------------|---|--------------------------------|-------------|
| | Cylinder Size | Contents ft ³ | Standard Valve Outlet (CGA) | Product Number | Cylinder Pressure at 70°F (psig) | Description Product Number | Delivery Pressure Range (psig) | Page Number |
| Atomic Absorption (AA) | 5 | 330 | 510 | AC AA5 | 250 | Single-Stage Regulator Y11-GC120A510 | 0-15 | E48 |
| | 4 | 140 | 510 | AC AA4 | 250 | | | |
| Certificate of Conformance provided upon request. | | | | | | | | |

| Technical Data & Shipping Information | |
|---------------------------------------|----------------------|
| Molecular Weight | 26.04 |
| Specific Volume | 14.85 cf/lb @70° F |
| Flammability Limits in Air | 2.5 - 100% in Air |
| U.S. DOT Name | Acetylene, Dissolved |
| ID Number | UN 1001 |
| U.S. DOT Hazard Class | 2.1 |
| U.S. DOT Label | Flammable Gas |
| CAS Registry | 74-86-2 |

Airgas offers unique acetylene automatic changeover systems, regulators and filters that allow Atomic Absorption detector users to get continuous acetylene supply while protecting the AA from acetone.

