



HELIUM (He) CGA-580

A Colorless, odorless, inert compressed gas at high pressure.

Toxicity: Simple asphyxiant

DOT Hazard Class: Nonflammable Gas (2.2)

DOT Label: Nonflammable Gas

Compatible Materials: Non-corrosive; most common structural materials can be used.

DOT ID No.: UN 1046

CAS No.: 7440-59-7

Molecular Weight: 4.00

Specific Volume at 70°F and 1 atm: 96.67 ft³/lb

*Batch Analysis or individual Certificate of Analysis Available at additional nominal charge.

| HELIUM, Research Grade 6.0 | | | | Minimum Purity 99.9999% |
|----------------------------|--------------|----------------------|----------------------|---------------------------------|
| Order Size | Product Code | Approximate Capacity | Approximate Pressure | Guaranteed Spec. (Molar ppm) |
| 025 | 02166025S | 22 CF. | 2015 P.S.I. | N ₂ < 1 |
| 244 | 02166244S | 219 CF. | 2015 P.S.I. | H ₂ O < 0.2 |
| 300 | 02166300S | 291 CF. | 2400 P.S.I. | O ₂ < 1 THC < 0.1 |

| HELIUM, Chromatographic Grade 6.0 | | | | Minimum Purity 99.9999% |
|-----------------------------------|--------------|----------------------|----------------------|-----------------------------------|
| Order Size | Product Code | Approximate Capacity | Approximate Pressure | Guaranteed Spec. (Molar ppm) |
| 025 | 02165025S | 22 CF. | 2015 P.S.I. | N ₂ < 3 |
| 244 | 02165244S | 219 CF. | 2015 P.S.I. | H ₂ O < 1 |
| 300 | 02165300S | 291 CF. | 2400 P.S.I. | THC < 0.1 O ₂ < 1.0 |

| HELIUM, Ultra Pure Carrier Grade 5.5 | | | | Minimum Purity 99.9995% |
|--------------------------------------|--------------|----------------------|----------------------|--|
| Order Size | Product Code | Approximate Capacity | Approximate Pressure | Guaranteed Spec. (Molar ppm) |
| 025 | 02166025S | 22 CF. | 2015 P.S.I. | |
| 244 | 02166244S | 197 CF. | 2015 P.S.I. | N ₂ < 5 O ₂ < 1 |
| 300 | 02166300S | 291 CF. | 2400 P.S.I. | H ₂ O < 1 THC < 0.5 |

| HELIUM, High Pressure CGA- 677 | | | | Minimum Purity 99.998% |
|--------------------------------|--------------|----------------------|----------------------|---|
| Order Size | Product Code | Approximate Capacity | Approximate Pressure | Guaranteed Spec. (Molar ppm) |
| 6000 | 02159244S | 587 CF. | 6000 P.S.I. | O ₂ < 10 H ₂ O < 3.5 |



HELIUM CONTINUED

HELIUM, Ultra High Pure (U.H.P.) Grade 5.0 **Minimum Purity 99.999%**

| Order Size | Product Code | Approximate Capacity | Approximate Pressure | Guaranteed Spec. (Molar ppm) |
|------------|--------------|----------------------|----------------------|------------------------------|
| 025 | 02163025S | 22 CF. | 2015 P.S.I. | O ₂ < 3 |
| 244 | 02163244S | 197 CF. | 2015 P.S.I. | H ₂ O < 3.5 |
| 300 | 02163300S | 261 CF. | 2400 P.S.I. | THC < 0.5 |

HELIUM, Zero Grade 4.7 **Minimum Purity 99.997%**

| Order Size | Product Code | Approximate Capacity | Approximate Pressure | Guaranteed Spec. (Molar ppm) |
|------------|--------------|----------------------|----------------------|------------------------------|
| 025 | 02157025S | 22 CF. | 2015 P.S.I. | THC < 1.0 |
| 244 | 02157244S | 197 CF. | 2015 P.S.I. | H ₂ O < 5.0 |
| 300 | 02157300S | 261 CF. | 2400 P.S.I. | O ₂ < 4.0 |

HELIUM, High Purity Grade 4.6 **Minimum Purity 99.996%**

| Order Size | Product Code | Approximate Capacity | Approximate Pressure | Typical Impurities (Molar ppm) |
|------------|--------------|----------------------|----------------------|--------------------------------|
| 025 | 02160025S | 22 CF. | 2015 P.S.I. | H ₂ O < 5.0 |
| 244 | 02160244S | 197 CF. | 2015 P.S.I. | O ₂ < 10 |
| 300 | 02160300S | 261 CF. | 2400 P.S.I. | |

HELIUM, Medical Grade 4.5 **Minimum Purity 99.995%**

| Order Size | Product Code | Approximate Capacity | Approximate Pressure | Guaranteed Spec. (Molar ppm) |
|------------|--------------|----------------------|----------------------|-------------------------------|
| 012 | 01080012M | 14 CF. | 2000 P.S.I. | CO < 10 |
| 025 | 01080025M | 22 CF. | 2015 P.S.I. | Odor-None Discernible |
| 060 | 01080060M | 53 CF. | 2015 P.S.I. | Lot Analyzed |
| 122 | 01080122M | 100 CF. | 2015 P.S.I. | Meets U.S.P. Standards |
| 244 | 01080244M | 197 CF. | 2015 P.S.I. | FDA Minimum Purity |
| 300 | 01080300M | 261 CF. | 2400 P.S.I. | 99.0 % |

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HELIUM CONTINUED

HELIUM, Standard Grade

Minimum Purity 99.995%

| Order Size | Product Code | Approximate Capacity | Approximate Pressure | Typical Impurities (Molar ppm) |
|------------|--------------|----------------------|----------------------|--------------------------------|
| 020 | 01080020S | 14 CF. | 2000 P.S.I. | O ₂ < 20 |
| 040 | 01080040S | 30 CF. | 2000 P.S.I. | H ₂ O < 20 |
| 060 | 01080060S | 53 CF. | 2015 P.S.I. | |
| 122 | 01080122S | 100 CF. | 2015 P.S.I. | |
| 244 | 01080244S | 197 CF. | 2015 P.S.I. | |
| 300 | 01080300S | 261 CF. | 2400 P.S.I. | |

HELIUM REGULATORS,

| Product Code | Brand | Style | Delivery Pressure P.S.I. | Description |
|--------------|---------|--------|--------------------------|----------------------------|
| 05390148C | Western | LM- | 0-15 | Dual Stage General Purpose |
| 05390148C | Western | LMSS- | 0-45,0-100,0-150 | Dual Stage High Purity |
| 05390017C | Western | SG &SH | 0-15, 0-45 | Single Stage General |
| 05390017C | Western | SHSS | 0-80, 0-150, 0-180 | Single Stage High Purity |
| 05390160C | Windy | 230HG | Preset | Std. Balloon Regulator |
| 05390170C | Windy | 230HGA | Preset | Auto. Balloon Regulator |