

All Semiconductor gas mixtures are provided as “Certified” or “Certified Plus” grade, with the following specifications:

- **Blend Technique: Gravimetric**
- **Certification: Certificate of Analysis**
- **NIST Traceability: Weight, Traceable Lab Standards or Titrimetrics**
- **Concentration is reported as Mole %, namely Moles of minor component (AsH<sub>3</sub>, B<sub>2</sub>H<sub>6</sub>, PH<sub>3</sub>, SiH<sub>4</sub>) over total Moles (x 100).**

## Blend Tolerance:

Concentration Range (Minor Component)	Tolerance	
10% to 50%	+/- 5%	Certified Grade
50 ppm to < 10%	+/- 10%	
1 ppm to < 50 ppm	+/- 20%	
5% to 50%	+/- 2%	Certified Plus Grade
500 ppm to < 5%	+/- 5%	
1 ppm to < 500 ppm	+/- 10%	

Matheson Tri-Gas has developed the technology and manufacturing capability to support the production of a wide variety of gaseous mixtures.

Please inquire about mixtures not reported in the following listings.

While the mixtures reported in the following pages are supplied standard with CGA connections, and supported by analytical certification via a batch analysis methodology, additional specifications are available upon request as follows:

- **DISS valve connections**
- **Pneumatic valve connections**
- **Individual cylinder analysis (analytical certification of minor component concentration)**

Please also note the following:

- **Cylinder content for Mixtures is reported as nominal only.**
- **Each cylinder is provided with a certificate of analysis complete with NIST traceability, shelf-lives, and certified concentrations.**