



Specialty Gases & Equipment



It is the guiding principle of MESA Specialty Gas and equipment to offer only the highest quality calibration gas products to our customers.

Service...

We recognize that only excellent customer service will allow our growth in this highly competitive calibration gas industry.

Support...

MESA Specialty Gas offers technical support through top experts in the field. Let us know how we can assist you.

Specialty Gas Product Specifications

MESA Specialty Gases offers three types of product grade available for your calibration gas standard, Primary, Certified and Gravimetric Standards.

The Primary Standard is the most accurate and is made by weight. Unless stated otherwise, the specialty gas mixture is certified to $\pm 1\%$ analytical accuracy of the numbers reported.

The Certified Standard is made by a combination of pressure and/or weight measurements. Unless stated otherwise, the calibration gas mixture is certified to $\pm 2\%$ analytical accuracy of the numbers reported.

In the case of all specialty gas products, final calibration gas mixtures are analyzed by gas chromatography or other suitable analytical methodology to confirm they are within the allowed tolerances. All calibration gas mixtures are supplied with a "Certificate of Analysis" that details the requested and analytical values as well as preparative and analytical methods used by MESA Specialty Gases to prepare the calibration gas standard.

STANDARD SPECIFICATIONS FOR CALIBRATION GAS, SPECIALTY GAS, NATURAL GAS, PETROCHEMICAL AND REFINERY GAS STANDARDS

Product Grade	Blend Tolerance	Blend Tolerance (1)	Certification Accuracy (1)
Primary	Below 5 ppm (2)	± 10 to 15%	± 1 to 2%
	5-100 ppm	$\pm 5\%$	$\pm 1\%$
	101-5000 ppm	$\pm 5\%$	$\pm 1\%$

	Above 0.5%	±5%	±1% (1)
Certified	Below 5 ppm (2)	±15-20%	±2-5%
	5-100 ppm	±10%	±2%
	101-5000 ppm	±10%	±2%
	Above 0.5%	±5%	±2%
Gravimetric (3)	0-100 ppm	±20%	Non-Certified by independent laboratory analysis. Concentration Ranges are reported based on the gravimetric values.
	101-5000 ppm	±10%	
	Above 0.5%	±5%	

1. The Blend Tolerances and Certification Accuracy are expressed as the relative percentage deviation from the requested concentration of the individual components. Certification Accuracy for Primary Standards over 2% concentration will be $\pm 0.02\%$ absolute of the reported value.
2. Tolerances of minor components below 5ppm may vary depending on the component and the complexity of the mixture.
3. Each component is reported at the requested concentration \pm the % stated for the concentration range.