



# Introduction *(continued)*

## How to Order Calibration Gas Mixtures

In order to aid you with ordering all of your calibration gas mixtures, please use the following guidelines:

**Step 1:** Specify each component by chemical name. Do not use chemical symbols since this can lead to errors.

**Step 2:** Specify concentrations of each component. Concentrations should be specified for each component in percentages, ppm or ppb. Gases are prepared based on a mole percent unless you specify otherwise.

This chart provides a simple conversion from ppm to percent:

1	ppm	=	0.0001%
10	ppm	=	0.0010%
100	ppm	=	0.0100%
1,000	ppm	=	0.1000%
10,000	ppm	=	1.0000%

**Step 3:** Specify the grade of mixture desired *(see above)*.

Matheson Reference	Certified
Primary Plus	Gravimetric
Primary	Unanalyzed
Certified Plus	Custom

**Step 4:** Specify the preparation tolerances. Unless otherwise noted, Blend Tolerance, Certification Accuracy and Traceability will be designated by the eight major categories from Step 3.

**Step 5:** Specify the number of cylinders required.

**Step 6:** Specify the cylinder size required *(See pages xiii - xvi)*.  
*Note: If you are not sure of the size or quantity of cylinders you need, specify the number of cubic feet, cubic meters, or other measurements that you require and we will determine the number and size of cylinders for you.*

**Step 7:** Identify any special mixture requirements you have, such as specific impurity analysis, maximum concentration, etc.

**Step 8:** Identify desired delivery date.

**Step 9:** Identify special shipping or billing instructions.