Introduction *(continued)*

Table II: Pure and Support Gas Grades for Process Gas Analyzers

			Recommended Matheson Grade for Detection Limits			
Gas Analyzer	**Selectivity**	**Gases Used**	**10 ppb to 1 ppm**	**1 ppm to 100 ppm**	**100 ppm to 1%**	**1% to 100%**
Chemiluminescent	NO, NO_2	Air	Acid Rain CEM	Acid Rain CEM	Zero Gas	N/A
		Nitrogen	Acid Rain CEM	Acid Rain CEM	Zero Gas	N/A
Electrochemical	H_2S, NO,	Air	Acid Rain CEM	Acid Rain CEM	Zero Gas	N/A
Detectors	NO_2, SO_2	Nitrogen	Acid Rain CEM	Acid Rain CEM	Zero Gas	N/A
NDIR	CO, CO_2, SO_2	Air	Acid Rain CEM	Acid Rain CEM	Zero Gas	Air, CO_2 Free
		Nitrogen	Acid Rain CEM	Acid Rain CEM	Zero Gas	Zero Gas
NIR	Universal	Nitrogen	N/A	Matheson	UHP	HP
Paramagnetic	O_2	Nitrogen	N/A	Oxygen Free	Matheson	UHP
Semiconductor	Flam-Ox	Air	N/A	N/A	Zero Gas	Dry
Sensors		Nitrogen	N/A	N/A	Prepurified	UHP
Total	Hydrocarbons	Air	VOC Free	Ultra Zero	Vehicle Emission	N/A
Hydrocarbon/FID		Nitrogen	VOC Free	Matheson	UHP	N/A
		Hydrogen	Research	Research	Zero	N/A
		FID Fuel	Ultra	Ultra	Zero	N/A

Gas Fill Volume Practices

Gas Compressibility Factors at 70°F and at stated gauge pressures, and from recognized industry sources, are used to verify cylinder contents. Ideal gas calculations may not apply.

In the calculation of Kpa pressure units, gauge pressure in psig is used. Where Kpa units are used, it is interpreted as Kpa (gauge).