



# Gas Mixtures – Multipurpose Two Component

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## Carbon Dioxide

Equipment Recommendations	Model No.	Page No.
Single Stage Regulator	Series 3530-CGA*	313
Mini High Purity Regulator	Series 3550-180	314
Low Dead Volume Regulator (for Concentrations < 50ppm)	Series 3590-CGA*	315

Gas Mixtures

Balance Gas	Concentration Range	Matheson Mixtures Grades						Cylinder Size	CGA*	Contents		Pressure		Approximate Ship Weight	
		MR	P	C+	C	U	G			US	Metric	psig	kPa	lb	kg
Air	1 ppm - 100 ppm			•	•	•	•	1A	590	215 ft <sup>3</sup>	6.09 m <sup>3</sup>	2,000	13,790	133	60
								2	590	84 ft <sup>3</sup>	2.38 m <sup>3</sup>	2,000	13,790	74	34
								3	590	36 ft <sup>3</sup>	1.01 m <sup>3</sup>	2,000	13,790	39	18
								6R	180	3.73 ft <sup>3</sup>	106 L	1,800	12,411	2	1
	100 ppm - 30 %	•	•	•	•	•	•	1A	590	215 ft <sup>3</sup>	6.09 m <sup>3</sup>	2,000	13,790	133	60
								2	590	84 ft <sup>3</sup>	2.38 m <sup>3</sup>	2,000	13,790	74	34
								3	590	36 ft <sup>3</sup>	1.01 m <sup>3</sup>	2,000	13,790	39	18
								6R	180	3.73 ft <sup>3</sup>	106 L	1,800	12,411	2	1
Helium	1 ppm - 100 ppm			•	•	•	•	1A	580	202 ft <sup>3</sup>	5.72 m <sup>3</sup>	2,000	13,790	133	60
								2	580	79 ft <sup>3</sup>	2.24 m <sup>3</sup>	2,000	13,790	74	34
								3	580	34 ft <sup>3</sup>	0.96 m <sup>3</sup>	2,000	13,790	39	18
								6R	180	3.51 ft <sup>3</sup>	99 L	1,800	12,411	2	1
	100 ppm - 30 %	•	•	•	•	•	•	1A	580	202 ft <sup>3</sup>	5.72 m <sup>3</sup>	2,000	13,790	133	60
								2	580	79 ft <sup>3</sup>	2.24 m <sup>3</sup>	2,000	13,790	74	34
								3	580	34 ft <sup>3</sup>	0.96 m <sup>3</sup>	2,000	13,790	39	18
								6R	180	3.51 ft <sup>3</sup>	99 L	1,800	12,411	2	1
Hydrogen	1 ppm - 100 ppm			•	•	•	•	1A	350	200 ft <sup>3</sup>	5.66 m <sup>3</sup>	2,000	13,790	133	60
								2	350	78 ft <sup>3</sup>	2.21 m <sup>3</sup>	2,000	13,790	74	34
								3	350	33 ft <sup>3</sup>	0.93 m <sup>3</sup>	2,000	13,790	39	18
								6R	180	3.48 ft <sup>3</sup>	98 L	1,800	12,411	2	1
	100 ppm - 30 %	•	•	•	•	•	•	1A	350	200 ft <sup>3</sup>	5.66 m <sup>3</sup>	2,000	13,790	133	60
								2	350	78 ft <sup>3</sup>	2.21 m <sup>3</sup>	2,000	13,790	74	34
								3	350	33 ft <sup>3</sup>	0.93 m <sup>3</sup>	2,000	13,790	39	18
								6R	180	3.48 ft <sup>3</sup>	98 L	1,800	12,411	2	1
Nitrogen	1 ppm - 100 ppm			•	•	•	•	1A	580	213 ft <sup>3</sup>	6.03 m <sup>3</sup>	2,000	13,790	133	60
								2	580	83 ft <sup>3</sup>	2.35 m <sup>3</sup>	2,000	13,790	74	34
								3	580	35 ft <sup>3</sup>	0.99 m <sup>3</sup>	2,000	13,790	39	18
								6R	180	3.69 ft <sup>3</sup>	104 L	1,800	12,411	2	1
	100 ppm - 30 %	•	•	•	•	•	•	1A	580	213 ft <sup>3</sup>	6.03 m <sup>3</sup>	2,000	13,790	133	60
								2	580	83 ft <sup>3</sup>	2.35 m <sup>3</sup>	2,000	13,790	74	34
								3	580	35 ft <sup>3</sup>	0.99 m <sup>3</sup>	2,000	13,790	39	18
								6R	180	3.69 ft <sup>3</sup>	104 L	1,800	12,411	2	1
Oxygen	50 ppm - 100 ppm			•	•	•	•	1A	296	186 ft <sup>3</sup>	5.27 m <sup>3</sup>	1,650	11,385	133	60
								2	296	72 ft <sup>3</sup>	2.04 m <sup>3</sup>	1,650	11,385	74	34
								3	296	31 ft <sup>3</sup>	0.88 m <sup>3</sup>	1,650	11,385	39	18
								6R	180	3.56 ft <sup>3</sup>	100 L	1,650	11,385	2	1
	100 ppm - 30 %	•	•	•	•	•	•	1A	296	186 ft <sup>3</sup>	5.27 m <sup>3</sup>	1,650	11,385	133	60
								2	296	72 ft <sup>3</sup>	2.04 m <sup>3</sup>	1,650	11,385	74	34
								3	296	31 ft <sup>3</sup>	0.88 m <sup>3</sup>	1,650	11,385	39	18
								6R	180	3.56 ft <sup>3</sup>	100 L	1,650	11,385	2	1

Contents and pressure may vary with concentration and ambient temperature.  
Certifications are traceable to NIST SRM.

**Key for Matheson Mixtures Grades:**

MR = Matheson Reference Standard    C+ = Certified Plus Standard    U = Unanalyzed Standard  
P = Primary Standard    C = Certified Standard    G = Gravimetric Standard

For more information on Matheson Mixture Grades, please refer to pages 66 - 68.

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