



# Isobutane

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

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	100 ppb - 10 ppm			•	•			1R	590	145 ft <sup>3</sup>	4.11 m <sup>3</sup>	2,000	13,790	70	32	
								2R	590	78 ft <sup>3</sup>	2.21 m <sup>3</sup>	2,000	13,790	48	22	
								3R	590	29 ft <sup>3</sup>	0.82 m <sup>3</sup>	2,000	13,790	24	11	
								6R	180	3.73 ft <sup>3</sup>	106 L	1,800	12,411	2	1	
	10 ppm - 0.9 %			•	•	•	•	•	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	10 ppm - 3 %		•	•	•	•	•	1A	350	202 ft <sup>3</sup>	5.72 m <sup>3</sup>	2,000	13,790	133	60	
								2	350	79 ft <sup>3</sup>	2.24 m <sup>3</sup>	2,000	13,790	74	34	
								3	350	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	
Nitrogen	100 ppb - 10 ppm			•	•			1R	350	143 ft <sup>3</sup>	4.05 m <sup>3</sup>	2,000	13,790	70	32	
								2R	350	77 ft <sup>3</sup>	2.18 m <sup>3</sup>	2,000	13,790	48	22	
								3R	350	29 ft <sup>3</sup>	0.92 m <sup>3</sup>	2,000	13,790	24	11	
								6R	180	3.69 ft <sup>3</sup>	104 L	1,800	12,411	2	1	
	10 ppm - 3 %	•	•	•	•	•	•	1A	350	213 ft <sup>3</sup>	6.03 m <sup>3</sup>	2,000	13,790	133	60	
								2	350	83 ft <sup>3</sup>	2.35 m <sup>3</sup>	2,000	13,790	74	34	
								3	350	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	

Contents and pressure may vary with concentration and ambient temperature.  
 \*Unanalyzed mixture available >0.2% concentration  
 MTG Isobutane certifications have direct NIST Natural Gas NTRM traceability.

**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.