

Special Applications

ENVIRONMENTAL MONITORING

EPA Protocols and Traceability Standards

EPA Protocol Gas Mixtures							Equipment Recommendations
	Concentration Range	CGA Connection	Cylinder Size*	Contents ft ³ **	EPA Protocol Pricing Reference Number	Traceability Standard Pricing Reference Number	Recommended Two-Stage Regulator
Carbon Dioxide in Air	300-9999 ppm 1-30%	590	150A	140	AIEECDB AIEECD	AIETCDB AIETCDC	Y12-S265D590
Carbon Dioxide in Nitrogen	300-9999 ppm 1-30%	580	150A	143	NIEECDA NIEECDB	NIETCDA NIETCDB	Y12-S265D590
Carbon Monoxide in Air	2.5-99 ppm 5 ppm - 7 ppm 1-6.25%	590	150A	140	AIEECMA AIEECMB AIEECMC	AIETCMA AIETCMB AIETCMC	Y12-S265D590
Carbon Monoxide in Nitrogen	2.5-99% 100-9999 ppm 1-13%	350	150A	143	NIEECMA NIEECMB NIEECMC	NIETCMA NIETCMB NIETCMC	Y12-S265D590
Hydrogen Sulfide in Nitrogen	3-99 ppm 100-300 ppm	330	150A	143	NIEEHSA NIEEHSB	NIETHSA NIETHSB	Y12-C445D330
Methane in Air	1-99 ppm 100-500 ppm	590	150A	140	AIEEMEA AIEEMEB	AIETMEA AIETMEB	Y12-D244D590
Nitric Oxide in Nitrogen	2-99 ppm 100-5000 ppm	660	150A	140	NIEENCA NIEENCB	NIETNCA NIETNCB	Y12-C445D660
Oxygen in Nitrogen	2000-9999 ppm 1-30%	< 5%=580 5%-23%=590 >23%=296	150A	140	NIEEOXB NIEEOXC	NIETOXB NIETOXC	Y12-D244D (CGA)
Propane in Air	1-99 ppm 100-999 ppm 0.1-1%	590	150A	140	AIEEPRA AIEEPRB AIEEPRC	AIETPRA AIETPRB AIETPRC	Y12-D244D590
Propane in Nitrogen	1-99 ppm 100-999 ppm 0.1-2%	350	150A	140	NIEEPRA NIEEPRB NIEEPRC	NIETPRA NIETPRB NIETPRC	Y12-D244D350
Sulfur Dioxide in Air	15-99 ppm 100 999 ppm 1000-5000 ppm	660	150A	143	AIEESDA AIEESDB AIEESDC	AIETSDA AIETSDB AIETSDC	Y12-C445D660
Sulfur Dioxide in Nitrogen	15-99 ppm 100-999 ppm 1000-5000 ppm	660	150A	140	NIEESDA NIEESDB NIEESDC	NIETSDA NIETSDB NIETSDC	Y12-C445D660
Sulfur Dioxide, Nitric Oxide in Nitrogen	15-5000 ppm SO ₂ 2-5000 ppm NO	660	150A	143	Inquire Inquire	Inquire Inquire	Y12-C445D660
Sulfur Dioxide, Oxygen in Nitrogen	15-5000 ppm SO ₂ 0.2-30% O ₂	660	150A	143	Inquire Inquire	Inquire Inquire	Y12-C445D660
Carbon Dioxide, Oxygen in Nitrogen	300 ppm-30% CO ₂ 0.2-30% O ₂	O ₂ <5%=580 O ₂ 5%-23%=590 O ₂ >23%=296	150A	140	Inquire Inquire	Inquire Inquire	Y12-D244D (CGA)
Sulfur Dioxide, Nitric Oxide, Carbon Dioxide in Nitrogen	15-5000 ppm SO ₂ 2-5000 ppm NO 300 ppm - 30% CO ₂	660	150A	143	Inquire Inquire Inquire	Inquire Inquire Inquire	Y12-C445D660
Sulfur Dioxide, Nitric Oxide, Carbon Monoxide in Nitrogen	15-5000 ppm SO ₂ 2-5000 ppm NO 2.5-13% CO	660	150A	143	Inquire Inquire Inquire	Inquire Inquire Inquire	Y12-C445D660
Sulfur Dioxide, Nitric Oxide, Carbon Dioxide, Carbon Monoxide in Nitrogen	15-5000 ppm SO ₂ 2-5000 ppm NO 2.5-13% CO 300 ppm-30% CO ₂	660	150A	143	Inquire Inquire Inquire Inquire	Inquire Inquire Inquire Inquire	Y12-C445D660

* Airgas® EPA Protocol gases are supplied in aluminum cylinders, sizes 150A, 80A, and 33A.

** Contents represent approximations; actual volumes are determined by the concentrations of the minor components.