

Helium (He)

A colorless, odorless, nonflammable, inert gas.

Purity Specifications	Minimum Purity	O ₂	H ₂ O	THC	CO	CO ₂	Ar	N ₂
BIP® Technology	99.9999%	< 10 ppb	< 20 ppb	< 100 ppb				< 3
Research	99.9999%	< 0.1	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5
Chromatographic	99.9999%	< 0.5	< 0.2	< 0.1	< 0.1	< 0.1	< 0.5	< 0.5
Ultra Pure Carrier (UPC)	99.9995%	< 1	< 1	< 0.5	* < 0.5	* < 0.5		< 3
Ultra High Purity (UHP)	99.999%	< 1	< 1	< 0.5	* < 0.5	* < 0.5		< 5
Zero	99.998%	< 4	3	< 0.5				
High Purity (HP)	99.998%	< 5	< 3					
High Pressure / High Purity	99.998%	< 5	< 3					

Concentrations given are ppm by volume unless otherwise specified.

*CO + CO₂ < 1ppm.

PRODUCT	Ordering Information					Equipment Recommendations		
	Cylinder Size	Contents ft ³	Standard Valve Outlet (CGA)	Product Number	Cylinder Pressure at 70°F (psig)	Description Product Number	Delivery Pressure Range (psig)	Page Number
BIP® Technology	300	291	580	HE BIP300	2,640	Two-Stage Regulators Y12-D244 * 580 Y12-SR145 * 580 Y12-S265 * 580 Single-Stage Regulator Y11-N145 * 580 Y11-D244 * 580 Y11-S265 * 580	A = 0-25 B = 0-50 D = 0-100 E = 0-150	E11 E20 E24
	Certificate of Conformance included.							
Research	300	291	580	HE R300	2,640	Y11-N145 * 580 Y11-D244 * 580 Y11-S265 * 580	A = 0-25 B = 0-50 D = 0-100 E = 0-150	E13 E10 E23
	200	213	580	HE R200	2,200			
	80	84	580	HE R80	2,200			
	35	33	580	HE R35	2,200			
An individual Certificate of Analysis included. Certificate of Conformance available upon request.					* Insert Delivery Pressure Range Code			
Chromatographic	300	291	580	HE CH300	2,640	Two-Stage Regulators Y12-N145 * 580 Y12-244 * 580	A = 0-25 B = 0-50 D = 0-100 E = 0-150 F = 0-250	E26 E11
	200	213	580	HE CH200	2,200			
	80	84	580	HE CH80	2,200			
	35	33	580	HE CH35	2,200			
Total impurities guaranteed < 1 ppm. Batch Certificate of Analysis included.								
Ultra Pure Carrier (UPC)	300	291	580	HE UPC300	2,640	Single-Stage Y11-N145 * 580 Y11-244 * 580	A = 0-25 B = 0-50 D = 0-100 E = 0-150 F = 0-250	E25 E10
	200	213	580	HE UPC200	2,200			
	80	84	580	HE UPC80	2,200			
	35	33	580	HEUPC35	2,200			
An individual or batch analysis is available upon request at a nominal charge. Total impurities < 5 ppm. Certificate of Conformance provided upon request.					* Insert Delivery Pressure Range Code			
Ultra High Purity (UHP)	300	291	580	HE UHP300	2,640			
	200	213	580	HE UHP200	2,200			
	80	84	580	HE UHP80	2,200			
	35	33	580	HE UHP35	2,200			
An individual or batch analysis is available upon request at a nominal charge. Certificate of Conformance provided upon request.					* Insert Delivery Pressure Range Code			

