

Propylene (C₃H₆)

A flammable, colorless liquefied gas with a detectable odor.

Purity Specifications	Minimum Purity	N ₂	Other Hydrocarbons	O ₂	H ₂ O	CO ₂ + CO	C ₃ H ₈
Research	99.99%	< 5	< 10	< 1	< 1	< 1	< 90
VLSI	99.98%	< 10	< 25	< 2	< 3	< 1	< 175
Electronic	99.95%	< 20	< 50	< 3	< 3	< 3	< 450
Ultra High Purity (UHP)	99.9%	< 20	< 950	< 2	< 4	< 4	
Polymer	99.5%	< 50	< 4,500	< 5	< 5	< 5	
Chemically Pure (CP)	99.0%						

Concentrations given are ppm by volume unless otherwise specified.

PRODUCT	Ordering Information					Equipment Recommendations		
	Cylinder Size	Contents lbs	Standard Valve Outlet (CGA)	Product Number	Cylinder Pressure at 70°F (psig)	Description Product Number	Delivery Pressure Range (psig)	Page Number
Research	350 LP1	99 4	510 510	PP R350 PP RLP1	138 138	Single-Stage Regulator Y11-LC241 * 510	A = 0-25 B = 0-50	E12
	Impurities listed are typical. Total impurities guaranteed < 1,000 ppm. Certificate of Conformance provided upon request.							
VLSI	1/2 TON 350	418 99	510 510	PP VLHTN PP VL350	138 138			
	Impurities listed are typical. Total impurities guaranteed < 200 ppm. Certificate of Conformance provided upon request.							
Electronic	1/2 TON 350	418 99	510 510 510	PP ELHTN PP EL350	138 138			
	Impurities listed are typical. Total impurities guaranteed < 500 ppm. Certificate of Conformance provided upon request.							
Ultra High Purity (UHP)	1/2 TON 350	418 99	510 510	PP UHPHTN PP UHP350	138 138			
	Impurities listed are typical. Total impurities guaranteed < 100 ppm. Certificate of Conformance provided upon request.							
Polymer	1/2 TON 350	418 99	510 510	PP PHTN PP P350	138 138			
	Impurities listed are typical. Total impurities guaranteed < 0.5%. Certificate of Conformance provided upon request.							
Chemically Pure (CP)	1/2 TON 350	418 99	510 510	PP CPHTN PP CP350	138 138			
	Impurities listed are typical. Total impurities guaranteed < 1%. Certificate of Conformance provided upon request.							

* Insert Delivery Pressure Range Code

Technical Data & Shipping Information	
Molecular Weight	42.08
Specific Volume	9.2 cf/lb @70° F
Flammability Limits in Air	2.4 - 10.3% in Air
U.S. DOT Name	Propylene
ID Number	UN 1077
U.S. DOT Hazard Class	2.1
U.S. DOT Label	Flammable Gas
CAS Registry	115-07-1