

GAS INNOVATIONS

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CERTIFICATE OF ANALYSIS

DATE:

PRODUCT: HYDROGEN CHLORIDE
GRADE: 5.0
Minimum Purity: 99.999%

SALES ORDER NO:
Customer PO #:

Cylinder Size:
NET CONTENTS:

BATCH #:
Manufacturer:
Certification Date:
Shelf Life: 24 months

Component	Specification	Results	Analytical
Assay	99.999%	99.999%	
CO ₂	<4 ppm/v		GCPDID
CO	<1 ppm/v		GCPDID
Methane	<1 ppm/v		GCPDID
N ₂	<2 ppm/v		GCPDID
O ₂ + Argon	<1 ppm/v		GCPDID
Water	<1 ppm/v		GE H ₂ O/P ₂ O ₅

Typical Metals Content:

Iron (Fe) ≤ 3 ppbw; Phosphorous (P) ≤ 5 ppbw; Lead (Pb) ≤ 2 ppbw; Sodium (Na) ≤ 5 ppbw; Zinc (Zn) ≤ 5 ppbw; Nickel ≤ 2 ppbw
Other Metals (Al, As, B, Bi, Cd, Ca, Cr, Cu, Mo, Mg, Sb, Ti, W, Zr) ≤ 1 .0ppmw

*Appearance; anhydrous HCl is a colorless gas (usually in equilibrium with a colorless liquid phase).

Serial Nos.