MATHESON
ask. . .The Gas Professionals™

Certificate of Analysis

Customer Service Center
166 KEYSTONE DRIVE
MONTGOMERYVILLE, PA 18936
P 800-416-2505
F 215-619-0458
info@matheson-trigas.com

Manufacturing Location
200 ALESSIO DR
JOLIET, IL 60433

Shipping Location
200 ALESSIO DR
JOLIET, IL 60433

CYLINDER NUMBER(S)
AX045790

To: FERMI NATIONAL LAB
GAS ONLY ACCT M/S 219
KIRK AND WILSON RDS
RECEIVING DEPT
BATAVIA, IL 60510

Certificate No: 419166
MTG Customer No: 126120
Sales Order No: 706085
Purchase Order No: 633162

Product: HYDROGEN
Grade: ULTRA HIGH PURITY 99.999%
MTG Part No: G1939112

Cylinder Size: 1L
Valve: CGA 350 BR
Contents:
Net: 258 ft³; 7.31 m³
Pressure: 2400 psig @ 70°F; 16649 kPa @ 21°C

	Specification	Certified Concentration	Units
Hydrogen	≥ 99.999	≥ 99.999	%
Nitrogen	< 7	ND < 0.2	ppm
Oxygen	< 2	0.1	ppm
THC	< 0.5	ND < 0.09	ppm
Water	< 3	0.8	ppm

COMMENTS

Lot No: 1027000344B1
Fill Date: 02/07/2017

The provision of this certificate is expressly subject to and governed by Matheson Tri-Gas' Terms and Conditions of Sale available on our web site, www.matheson-trigas.com. This document was issued electronically and data validated by electronic signature.

Xiao-tian Xu — 02/07/2017
Xu Xianotian - Analyst — Date

Michael Decman — 03/01/2017
Michael Decman - QA Approval — Date