CERTIFICATE OF ACCREDITATION

This is to attest

QAFAC QATAR FUEL ADDITIVES CO. LTD

P.O. BOX 22700, MIC
DOHA, QATAR

Testing Laboratory TL-1181

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories.* This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date August 11, 2025

International Accreditation Service
Issued under the authority of IAS management

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 101, Brea, California 92821, U.S.A. | www.iasonline.org

QAFAC QATAR FUEL ADDITIVES CO. LTD

www.qafac.com.qa

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Accredited to ISO/IEC 17025:2017 *Effective Date August 11, 2025*

Water and Wastewater	
APHA 2110 SMEWW 24th Edition	Appearance
APHA 2510B SMEWW 24th Edition	Conductivity at 25°C
APHA 2540 D SMEWW 24th Edition	Total Suspended Solids
APHA 4500-O-G SMEWW 24th Edition	Dissolved Oxygen by Membrane-Electrode Method
APHA 4500-S2-D SMEWW 24th Edition	Sulfide by Methylene Blue Method
ASTM D1252-06 (Reapproved 2020)	Standard Test Methods for Chemical Oxygen Demand (Dichromate Oxygen Demand) of Water
ASTM D1293−18	Standard Test Methods for Standard Test Methods for pH of Water
ASTM D1976-20	Standard Test Method for Elements (Calcium, Magnesium, Sodium & Chromium) in Water by Inductively-Coupled Plasma Atomic Emission Spectroscopy
ASTM D7678-17 (2022)	Standard Test Method for Total Oil and Grease and Total Petroleum Hydrocarbons (TPH) in Water and Wastewater with Solvent Extraction using Mid-IR Laser Spectroscopy
QR-PRO-LAB-0015 Based on APHA 4500-Cl G and USEPA DPD Method 8021	Test Method for determination of free and residual chlorine
Methanol and MTBE	
ASTM D1209-25	Standard Test Method for Color of Clear Liquids (Methanol and MTBE) (Platinum-Cobalt Scale).
ASTM D1363-06 (Reapproved 2019)	Standard Test Method for Permanganate Time of Methanol
ASTM D1613-17 (Reapproved 2023)	Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates (Methanol) Used in Paint, Varnish, Lacquer, and Related Products

ASTM D1722-09 (Reapproved 2023)	Standard Test Method for Water Miscibility of Soluble Solvents - Methanol
ASTM D4052-22	Standard Test Method for Density, Relative Density, and API Gravity of Liquids (Methanol and MTBE) by Digital Density Meter
ASTM E1064-24	Standard Test Method for Water in Organic Liquids (Methanol and MTBE) by Coulometric Karl Fischer Titration
ASTM E2680-23	Standard Test Method for Appearance of Clear, Transparent Liquids (Visual Inspection Procedure)
ASTM E394-22	Standard Test Method for Standard Test Method for Iron in Trace Quantities in Methanol Using the 1,10 Phenanthroline Method
IMPCA 003-98	Appearance of Methanol
Natural Gas	
ASTM D1945-14 (Reapproved 2019)	Standard Test Method for Analysis of Natural Gas by Gas Chromatography (Methane, Ethane, Propane, Butanes, Pentanes, Carbon Dioxide & Nitrogen)
Fuel Gases	
ASTM D1946-24	Standard Practice for Analysis of Gaseous Fuels by Gas Chromatography (Methane, Hydrogen, Carbon Dioxide, Carbon Monoxide and Nitrogen)
UOP Method 539-12	Standard Test Method for the Determination of the Composition of Fuel Gases by Gas Chromatography. (Methane, Ethane, Ethylene, Propane, Propylene, Butanes, Pentanes, Carbon Dioxide & Nitrogen, Hydrogen & DME-Dimethyl Ether)
Butane Feed	
UOP Method 539-12	Standard Test Method for the Determination of the Composition of Butane Feed by Chromatography. (Propane, Isobutane, N-Butane, Neopentane, Isopentane, and N-Pentane)
Flue Gas	
ASTM D1946-24	Standard Practice for Analysis of Flue Gases by Gas Chromatography (Carbon Dioxide, Oxygen and Nitrogen)