

Certificate of Approval

This is to certify that the Management System of:

CPA Chem Ltd.

2 Ivanka Terzieva Str., 6065 Bogomilovo, Bulgaria

has been approved by LRQA to the following standards:

ISO 9001:2015

Approval number(s): ISO 9001 – 0039638

The scope of this approval is applicable to:

Development and manufacture of certified reference materials and analytical standards.



Paul Graaf

Area Operations Manager, Europe

Issued by: LRQA Limited



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

CPAchem Ltd.

**2 Ivanka Terzieva
6065 Bogomilovo, Bulgaria**

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

TESTING

This certificate is valid only when accompanied by a current scope of accreditation document
The current scope of accreditation can be verified at www.anab.org.



Jason Stine, Vice President

Expiry Date: 17 January 2026

Certificate Number: AT-1836



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CPAchem Ltd.
 2 Ivanka Terzieva
 6065 Bogomilovo, Bulgaria
 Krassimira Taralova
 Phone: 359(42) 607716

TESTING

Valid to: **January 17, 2026**

Certificate Number: **AT-1836**

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Metals	In house method WQP 5.15.1.1	Analytical Reference Materials in Solution	ICP OES ICP MS
Anions/ Cations	In house method WQP 5.15.1.8	Analytical Reference Materials in Solution	Ion Chromatography
pH	In house method WQP 5.15.1.5	Analytical Reference Materials in Solution, Wine and alcohol	pH meter
pH	In house method WQP 5.15.1.23	Analytical Reference Materials in Solution	Harned Cell
Conductivity	In house method WQP 5.15.1.4	Analytical Reference Materials in Solution	Conductivity Meter
Volumetric Solutions	In house methods WQP 5.15.1.11 WQP 5.15.1.12 WQP 5.15.1.13 WQP 5.15.1.14 WQP 5.15.1.15 WQP 5.15.1.16 WQP 5.15.1.17 WQP 5.15.1.18	Analytical Reference Materials in Solution	Titrimetry
Water Content	In house method WQP 5.15.1.26	Analytical Reference Materials in Solution	Karl Fischer Coulometric Titrator
Total Organic Carbon	In house method WQP 5.15.1.30	Analytical Reference Materials in Solution	TOC Analyzer

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Potassium dichromate	In house method WQP 5.15.1.31	Analytical Reference Materials in Solution	UV/VIS
Organic Compounds	In house methods WQP 5.15.1.2 WQP 5.15.1.19 WQP 5.15.1.20 WQP 5.15.1.21	Analytical Reference Materials in Solution High-purity Organic Substances	GC/MS HPLC/ HPLC-MS
Density and relative density at 20°C	In house method WQP 5.15.1.9 (4.1)	Wine and alcohol	Pycnometer
Alcohol content, % (w/V)	In house method WQP 5.15.1.9 (4.2)	Wine and alcohol	Pycnometer
Reducing sugars	In house method WQP 5.15.1.9 (4.3)	Wine and alcohol	Titrimetry
Total acidity	In house method WQP 5.15.1.9 (4.4)	Wine and alcohol	Titrimetry
Volatile acidity	In house method WQP 5.15.1.9 (4.5)	Wine and alcohol	Titrimetry
Sulfur Dioxide	In house method WQP 5.15.1.9 (4.6)	Wine and alcohol	Titrimetry
Total dry extract	In house method WQP 5.15.1.9 (4.11)	Wine and alcohol	Calculation
Turbidity	In house method WQP 5.15.1.29	Analytical Reference Materials in Solution	Turbidimeter
Chemical Oxygen Demand	In house method WQP 5.15.1.33	Analytical Reference Materials in Solution	Digestion Titrimetry
Chemical Oxygen Demand	In house method WQP 5.15.1.32	Analytical Reference Materials in Solution	Digestion UV/VIS
Color	In house method WQP 5.15.1.34	Analytical Reference Materials in Solution	ICP and UV/VIS
Osmolality	In house method WQP 5.15.1.35	Analytical Reference Materials in Solution	Osmometer
Density	In house method WQP 5.15.1.36	Analytical Reference Materials in Solution	Density meter
Cold Filter Plugging Point (CFPP)	In house method WQP 5.15.1.37	Petroleum Products	Cold Filter Plugging Point (CFPP) analyzer
Pour Point	In house method WQP 5.15.1.37	Petroleum Products	Pour Point analyzer

Chemical

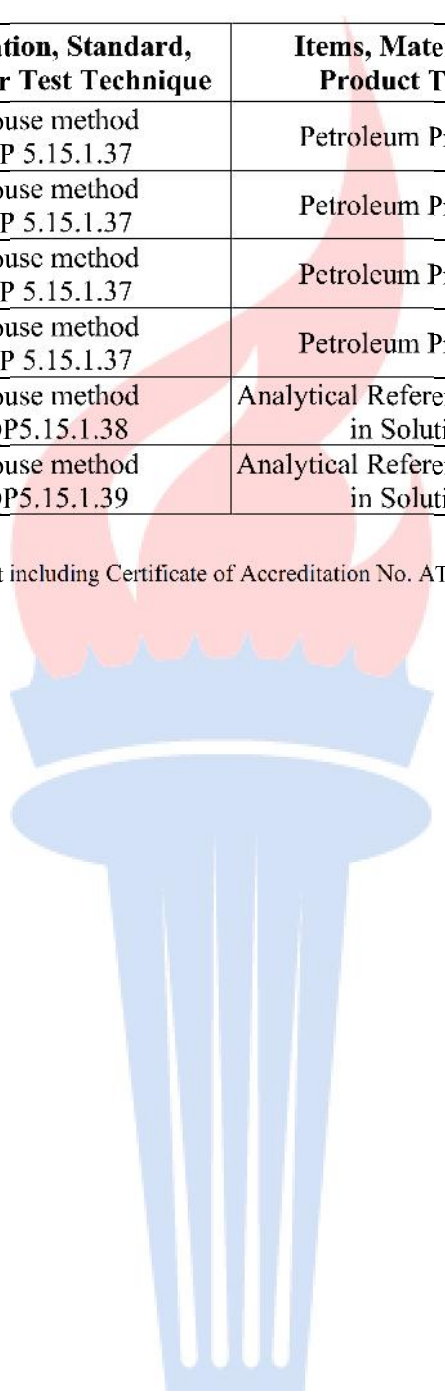
Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Viscosity	In house method WQP 5.15.1.37	Petroleum Products	Viscometer
Flash Point	In house method WQP 5.15.1.37	Petroleum Products	Flash Point analyzer
Distillation	In house method WQP 5.15.1.37	Petroleum Products	Automatic distiller
Cloud Point	In house method WQP 5.15.1.37	Petroleum Products	Cloud Point analyzer
Total Acid Number	In house method WQP5.15.1.38	Analytical Reference Material in Solution	Titrimetry
Total Base Number	In house method WQP5.15.1.39	Analytical Reference Material in Solution	Titrimetry

Note:

This scope is formatted as part of a single document including Certificate of Accreditation No. AT-1836.



Jason Stine, Vice President



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

CPAchem Ltd.

**2 Ivanka Terzieva
6065 Bogomilovo, Bulgaria**

Fulfills the requirements of

ISO 17034:2016

In the field of

REFERENCE MATERIAL PRODUCER

This certificate is valid only when accompanied by a current scope of accreditation document
The current scope of accreditation can be verified at www.anab.org.



Jason Stine, Vice President

Expiry Date: 17 January 2026

Certificate Number: AR-1835



SCOPE OF ACCREDITATION TO ISO 17034:2016

CPAchem Ltd.
2 Ivanka Terzieva
6065 Bogomilovo, Bulgaria
Krassimira Taralova
Phone: 359(42) 607716

REFERENCE MATERIAL PRODUCER

Valid to: **January 17, 2026**

Certificate Number: **AR-1835**

Chemical

Type of Reference Material	Description of the Reference Material Matrix or Artifact including the Property-Properties Characterized	Method or Techniques Used by the RMP Laboratory to Determine the Assigned Value (if Appropriate)
Certified Reference Materials	Single and multi-component organic & inorganic materials in solution: <ul style="list-style-type: none"> • Metals • Anions • Cations • pH Standards • Conductivity Standards • Volumetric Solutions • Alcohols • Carbonyls and derivatives • Carbamates • Conazoles • Heterocyclic compounds • Hydrocarbons • Nitrogen containing organic compounds • Organic acids • Organochlorine pesticides • Phenols 	<ul style="list-style-type: none"> • ICP OES • ICP MS • Ion Chromatography • pH Meter • Primary measurement method – Harned Cell • Conductivity Meter • Titrimetry • Gravimetry • Karl Fischer Coulometric Titrator

Chemical

Type of Reference Material	Description of the Reference Material Matrix or Artifact including the Property-Properties Characterized	Method or Techniques Used by the RMP Laboratory to Determine the Assigned Value (if Appropriate)
Certified Reference Materials	<ul style="list-style-type: none"> • Phenoxyacetates • Phosphorus containing organic compounds • Phthalates • Polyaromatic Hydrocarbons (PAHs) • Polybrominated/ Polychlorinated biphenyls (PBBs and PCBs) • Pyrethroids • Synthetic oils • Triazines • Total Acid Number (TAN) • Total Base Number (TBN) • Total organic carbon • Potassium dichromate for UV/VIS • Volatile organic compounds • Water Content • Turbidity • Chemical Oxygen Demand (COD) • Color • Osmolality 	<ul style="list-style-type: none"> • HPLC/ HPLC-MS • GC/MS • Turbidimeter • TOC Analyzer • UV/VIS • Osmometer
Certified Reference Materials	<p>High Purity Inorganic Compounds:</p> <ul style="list-style-type: none"> • Metals • Salts 	<ul style="list-style-type: none"> • ICP OES • ICP MS • Ion Chromatography • Karl Fischer Coulometric Titrator

Chemical

Type of Reference Material	Description of the Reference Material Matrix or Artifact including the Property-Properties Characterized	Method or Techniques Used by the RMP Laboratory to Determine the Assigned Value (if Appropriate)
Certified Reference Materials	<p>High Purity Organic Compounds:</p> <ul style="list-style-type: none"> • Alcohols • Carbonyls and derivatives • Carbamates • Conazoles • Heterocyclic compounds • Hydrocarbons • Nitrogen containing organic compounds • Organic acids • Organochlorine pesticides • Phenols • Phenoxyacetates • Phosphorus containing organic compounds • Phthalates • Polyaromatic Hydrocarbons (PAHs) • Polybrominated/ Polychlorinated biphenyls (PBBs and PCBs) • Pyrethroids • Synthetic oils • Triazines • Volatile organic compounds 	<ul style="list-style-type: none"> • HPLC / HPLC-MS • GC/MS • Karl Fischer Coulometric Titrator

Physical Properties

Type of Reference Material	Description of the Reference Material Matrix or Artifact including the Property-Properties Characterized	Method or Techniques Used by the RMP Laboratory to Determine the Assigned Value (if Appropriate)
Certified Reference Materials	Solutions for determination of density: <ul style="list-style-type: none"> • Density 	<ul style="list-style-type: none"> • Density Meter
Certified Reference Materials	Solutions for determination of physical properties of petroleum products: <ul style="list-style-type: none"> • Cold Filter Plugging Point (CFPP) • Pour Point • Viscosity • Distillation • Flash Point • Cloud Point 	<ul style="list-style-type: none"> • Cold Filter Plugging Point (CFPP) analyzer • Pour Point analyzer • Viscometer • Automatic distiller • Flash Point analyzer • Cloud Point analyzer

Notes:

1. Please contact the RMP organization for more information on CRM uncertainty values, U_{erm} values, and other specific lot values. Some of this information may also be available on the RMP's website.
2. This scope is formatted as part of a single document including Certificate of Accreditation No. AR-1835.



Jason Stine, Vice President