







Contents

•	CPAchem history	– p. 3-5
•	Product range	- р. 6-8
•	Accreditations	– p. 9
•	CPAchem main advantages	– р. 10-13
•	Products Certification	– p. 14-24
•	MSDS, CoAs, Transportation, Claims	– p. 25
•	CPAchem sales figures	- р. 26-28
•	Staff and facilities	– р. 29-40



CPAchem history

CPAchem is a Bulgarian-French company, which invented the custom-made standards, prepared to specific customer requirements

Nowadays CPAchem has clients from 100 different countries on 6 continents

Since 2002, the quality of CPAchem products has enabled the company to become and remain an OEM manufacturer for large international distributors.



CPAchem history line

2001	Founded, started producing and offering custom multi-component Inorganic solutions
2002	ISO 9001 certified
2003	Started production of Analytical standards and standards according to European Pharmacopoeia
2005	Started production of Organic standards
2012	Started production of standards according to US, British, Indian, Japanese and International Pharmacopoeia
2014	ISO 17025 (testing laboratory), ISO Guide 34 (CRM producer) accredited
2015	Started production of Organic compounds (CRM)
2016	Started production of Inorganic compounds (CRM)
2017	Started production of Karl Fischer standards (CRM) and Primary pH buffers (Harned Cell)
2018	Started production of Turbidity standards (CRM) and Chinese Pharmacopoeia products



CPAchem history line

2019	Moved to its new building with 5400 square meters (58 125 square feet) modern manufacturing and R&D laboratories, storage, office and recreational space.
	Started offering organic compounds with certified weight
2020	Certification according to ISO 17025 and ISO 17034 of the Pharmacopoeia products
	Started production of TIC&TOC, TDS, Alkalinity, COD, Total hardness, Pt-Co/Hazen and UV-VIS standards as CRM
2021	Launched – Osmolality standards, Full range of Karl Fischer standards
2022	Launched – Petrochemical standards



The Experts in Custom-made Certified Reference Materials

CPAchem's product range















CPAchem's product range

Custom-made and Stock
Inorganic solutions for AAS,
ICP, ICP/MS and Ion
Chromatography

Custom-made and Stock Organic solutions for LC, LC/MS, LC-MS/MS, GC and GC/MS Custom-made and Stock
Volumetric Solutions, Karl Fischer,
Turbidity, TOC, TIC, UV-VIS, COD,
Alkalinity, TDS, Pt-Co/ Hazen and
Total hardness Standards

High-Purity Inorganic Compounds

High-Purity Organic Compounds

Custom-made and Stock pH and Conductivity Buffers, Primary pH buffers (Harned Cell)

Certified Reference Materials

Pharmacopoeia Products

Reagents according to European, US, British, Indian, Japanese, International and Chinese Pharmacopoeia



CPAchem is an expert in the production of Custommade standards



The custom-made standards are prepared to exactly match clients' needs and give them opportunities to quickly achieve their goals





- √ 2 to 5 business days usually
- ✓ Emergency orders within 24 hours

51 % of CPAchem's turnover for 2022 is of custom-made standards

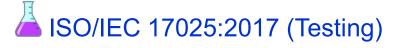


CPAchem accreditations









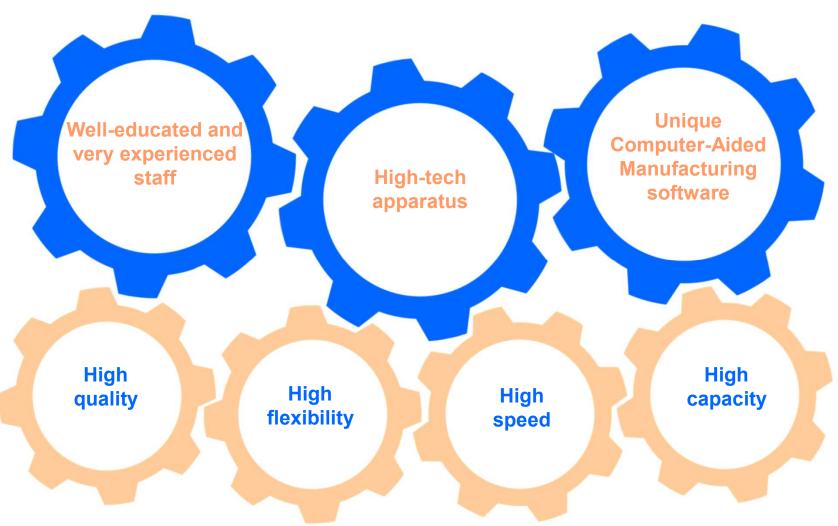


▲ ISO 9001:2015 certified



The accreditation scope is one of the largest ones in the world







What makes CPAchem different as a CRM producer?

We answer every inquiry extremely fast – within the same day, not later than 24 hours

We produce and ship every order (incl. for custom-made products) within 3-7 working days and process emergency orders within 24 hours when it is needed

High capacity – ability to produce more than 200 different custom-made standards per day without volume and quantity limits

We guarantee high-quality of products – the number of valid claims has never exceeded 0.3% of the total number of orders per year

CPAchem has the widest accreditation scope in the industry



What makes us different as a CRM producer?

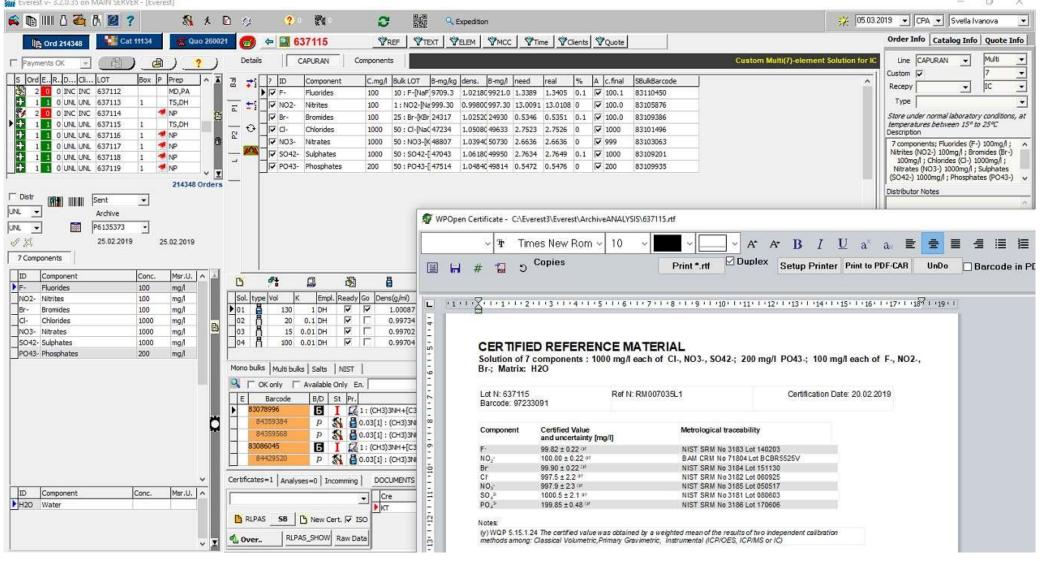
The control of all processes is fully automated by our dedicated Computer Aided Manufacturing (CAM) software

The software system performs and controls the whole working process:

- ✓ starting from the raw materials' incoming control through
- ✓ products preparation
- √ certified values and uncertainties budget calculation
- ✓ certificates generation
- ✓ packaging and expedition



The Experts in Custom-made Inorganic and Organic Standards





Products Certification

Fully in tune with our company's philosophy we have been constantly trying to make our certificates more precise, detailed and easily accessible, meeting even the toughest demands of every user.

Get it online, be green

The users could access 24/7 each product's certificate and download it from our website simply using the QR code printed on product's label

Sample CoAs for all stock products are also available on the web-site

The shelf-life starts on the date the product is sent to the customer, i.e. customers always receive products with 100% shelf-life

All products lot numbers are unique and are related to given distributor's order







Inorganic standards Certification



All certified values and their uncertainties are obtained analytically



Certificates of Analysis report the actual values and not simply the calculated ones



Traceability to SI (NIST, BAM)

The uncertainties refer to each of the components separately and not to the uncertainty of the whole mixture



Inorganic standards Certification

Several methods are used to obtain the certified values of the produced certified reference materials:

- Instrumental Ion Chromatography, ICP/OES or ICP/MS calibration;
- Classical volumetric analysis;
- Gravimetrical dilution of a concentrate, which had been calibrated by instrumental and/or classical analysis;
- Weighted mean of the results of two independent calibration methods among: Instrumental (ICP/OES, ICP/MS or IC), Classical volumetric and Primary gravimetric*

^{*} Primary gravimetric method is used only if the other methods are not usable. If it is possible the gravimetric preparation is always checked analytically for correct dilutions and eventual contamination





Scan the QR code and go directly to our web-page: https://www.cpachem.com/shop/organic



Organic standards certification

The uncertainties refer to each of the components separately and not to the uncertainty of the mixture

The certified value(s) are obtained gravimetrically and confirmed experimentally by GC-MS or HPLC-DAD/ HPLC-MS/ HPLC-MS-MS. The latest option is to provide a chromatogram with the CoA or instrumentally obtained certified value(s)

The CoAs provide full traceability of preparation. The dissolution of the raw materials (with their purity), passing through the preparation of the intermediate solutions and reaching to the preparation of the final solutions is described in section Additional Information



An option for high-purity organic compounds is to certify their exact weight





Scan the QR code and go directly to our web-page: http://www.cpachem.com/shop/analytical_reagents



Analytical CRM certification



All certified values and their uncertainties are obtained analytically



Certificates of Analysis report the actual values



Traceability to SI (NIST, BAM)

For pH and conductivity standards CPAchem certifies values and uncertainties for two different temperature values

For COD standards certified values and uncertainties are obtained by the weighted mean of two independent calibration methods





Scan the QR code and go directly to our web-page: https://www.cpachem.com/shop/pharmacopoeia



Pharmacopoeia products according to European, US, British, Indian, Japanese, International and Chinese Pharmacopoeia



Opalescence suspension *



Color Primary Certified Reference Materials and Reference Materials



A Reagents*



Standard Solutions *



Buffer Solutions *



Volumetric Solutions *



Indicators

^{*} Certification according to ISO 17025 and ISO 17034 is available upon request



Pharmacopoeia products according to European, US, British, Indian, Japanese, International and Chinese Pharmacopoeia

All products are prepared strictly following the latest Pharmacopoeia edition recipes



Options for production of large volumes



MSDS, CoAs, Transportation, Claims

MSDS – the safety data sheets could be downloaded from CPAchem's web-page - http://www.cpachem.com/msds

CoA – certificates of analysis of the already produced standards could be downloaded from CPAchem's web-page - http://www.cpachem.com/certificates

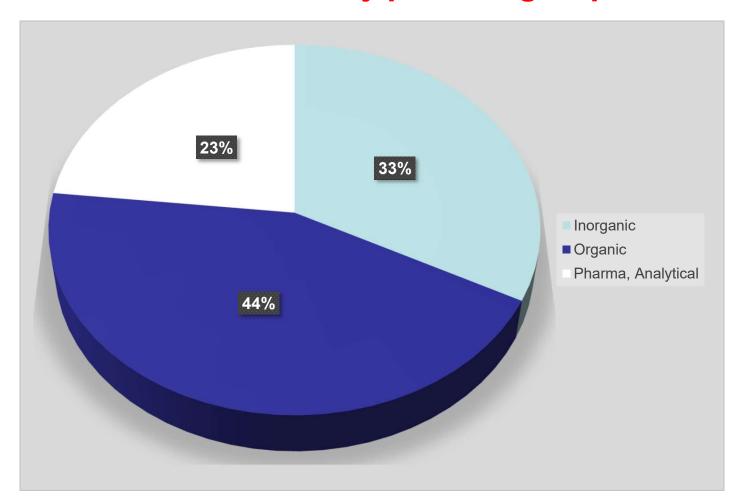
CoA for products with private labels are automatically send to ftps, provided by the respective distributors

Transportation – we use the best transportation options for each destination. The organic solutions have been always sent by Air

Claims – each claim is answered within 10 days after we analyze the retaining sample of the claimed product. In case the claim has grounds, a free of charge replacement product is sent

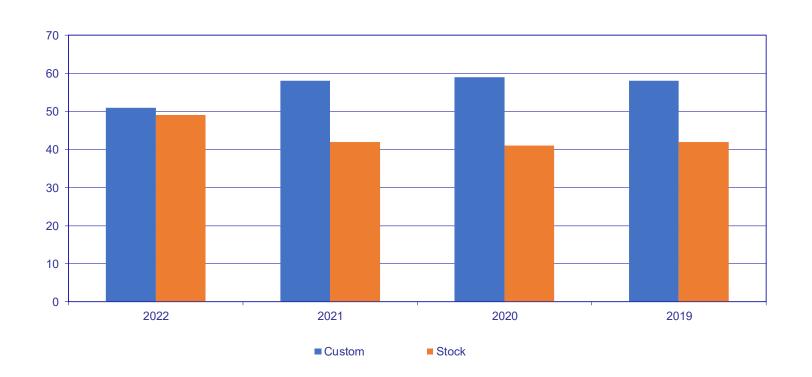


CPAchem sales distribution by product groups – 2022



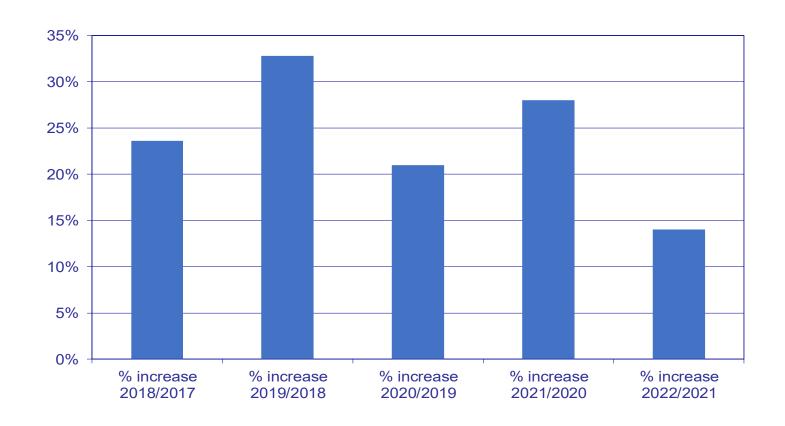


Stock and custom products % sales ratio - between custom and stock products - 2022/2021/2020/2019





CPAchem sales annual % increase





CPAchem staff and facilities





Total staff – 51 employees



44 of them are university graduates with proven track-record

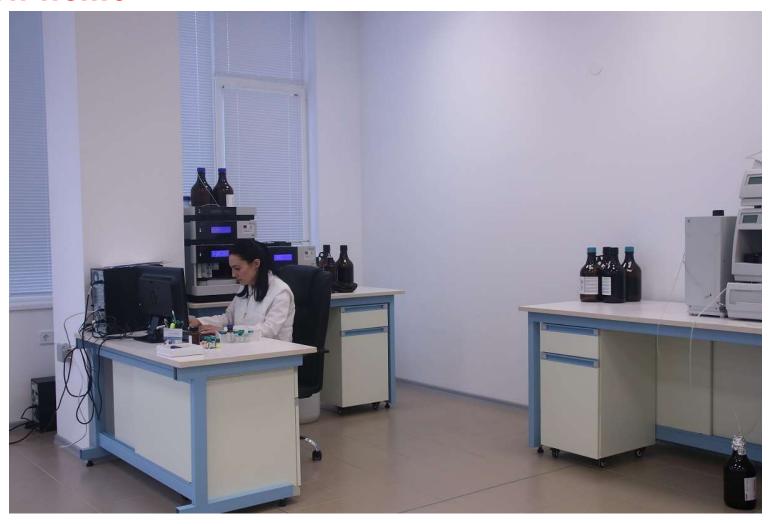




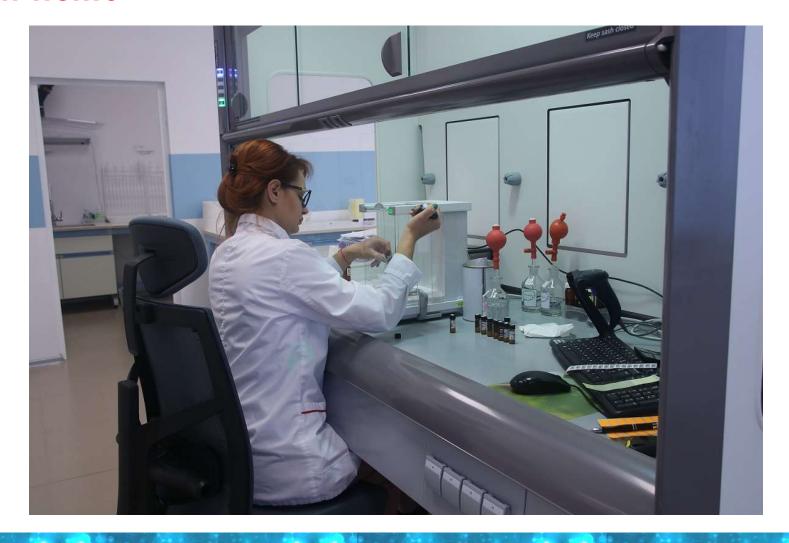
















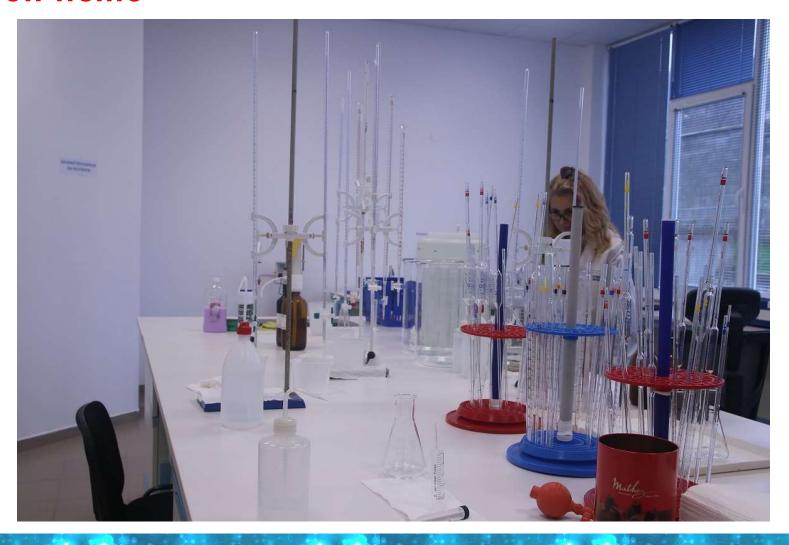


























New Products – added in 2022



Petrochemical standards





Thank you for your attention!