

A blue-toned background featuring a complex molecular structure with various atoms and bonds, some highlighted in a lighter blue or white, creating a sense of depth and scientific focus.

# ***CPAchem – UP TO NEW HORIZONS***

## Intro

 CPAchem is a Bulgarian-French company, found in 2001 when it invented the custom-made standards, prepared to specific customer requirements;

 Nowadays more than 5,000 laboratories worldwide have trusted us and have used products manufactured both under our own brand name or under the private labels;

 Among our biggest clients are VWR, Fisher, LGC, Carlo Erba, and others which rely on the excellent quality of our products.



## 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 HPLC,  
HPLC/MS, GS and GS/MS

Custom-made and Stock  
Volumetric Solutions,  
Karl Fischer standards,  
Turbidity standards,  
TOC

High-Purity Inorganic  
Compounds

High-Purity Organic  
Substances

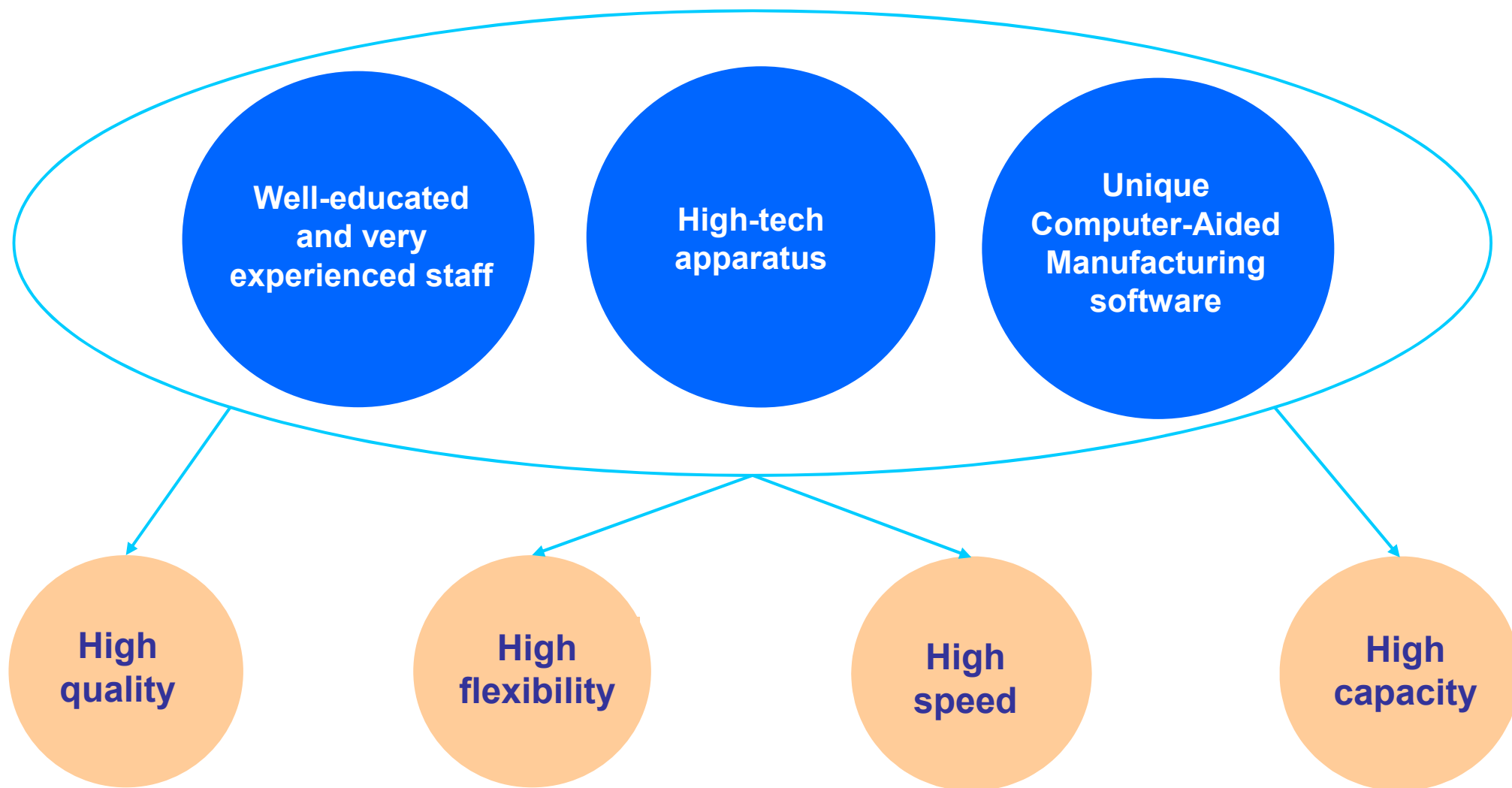
Custom-made and Stock pH  
and Conductivity Buffers,  
Primary pH buffers (Harned  
Cell)

### **Certified Reference Materials**


### **Pharmacopoeia Products**


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

## ***Which are our main advantages?***



## ***What makes us different as a CRM producer?***

 The control of all the processes is fully automated by our dedicated Computer Aided Manufacturing (CAM) software, in addition to the modern network SQL-based data collecting system.

 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.





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08.06.2016 C01

Ord 28 Cat 1123 Quo 54641 D66812 REF TEXT ELEM MCC Time Clients Quote

Details CAPURAN Components Labels Custom Multi(9)-element Solution for ICP

S	Ord	Exp	Rcv	Distr.	Client	LOT	Box	P	Prep
1	0	0	ACS	VWX	D66812				TS, RT
1	0	0	ACS	CER	D66962				TS, RT
1	0	0	ACS	CER	D66972				TS
1	0	0	ACS	VWR	D67332				TS
1	0	0	ACS	L02	D67462				DM
1	0	0	ACS	ZUN	D67542				TS
1	0	0	ITL	ITL	D67604				OT
1	0	0	ITL	ITL	D67624				OT

28 Orders

ACS Done Done

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9 Components

ID	Component	Conc.	Msr.U.
Al	Aluminium	1000	mg/l
Ca	Calcium	1000	mg/l
Fe	Iron	1000	mg/l
Na	Sodium	1000	mg/l
Ni	Nickel	1000	mg/l
P	Phosphorus	1000	mg/l
Si	Silicon	1000	mg/l
V	Vanadium	1000	mg/l
Zn	Zinc	1000	mg/l

ID	Component	Conc.	Msr.U.
HNO3	Nitric Acid	2	%

L	An	EL	Conc.	msr	CertV	Uncert	%	C.bal.	R1	R2	R3	R4	R5	R6
1		HNO3	2	%				2.000						
2		Al	1000	mg/l	996.0	7.6	-0.4 (±0.8)	1000	983.4	987.7	989.5	989.8	990.7	991.6
3		Ca	1000	mg/l	994.0	4.5	-0.6 (±0.5)	1000	985.9	986.4	993.7	993.8	994.4	995.0
4		Fe	1000	mg/l	991.9	9.1	-0.8 (±0.9)	1000	982.1	982.1	984.2	985.9	989	991.6
5		Na	1000	mg/l	994.6	6.2	-0.5 (±0.6)	1000	986.7	989.5	992.5	992.8	995.4	996.0
6		Ni	1000	mg/l	1016.6	7.5	1.7 (±0.7)	1000	1003	1008	1009	1010	1011	1012

K.rep 1 %prep 50 RED%rep 4 RED%cert 2 RED%uncert 1 ALL 1

Reference

Sol.	type	Vol	K	от	Ready	Go	Dens(g/ml)
01		135	1	RT	✓	✓	1.04244
02		100	0.01	RT	✓	✓	1.00699
03		500	0.001	RT	✓	✓	0.99705

Mono bulks Multi bulks Salts NIST

OK only Available Only En.

E	Barcode	B/D	St	Pr.	LOT No.
1	83090936	6	I	1: Ti[Ti] : 5N0.5F : T- : 2 : C	
2	83078996	6	I	1: (CH3)3NH+[C3H9NHC]	
3	84359384	p	I	0.03[1] : (CH3)3NH+[C3H9NHC]	
4	84359568	p	I	0.03[1] : (CH3)3NH+[C3H9NHC]	
5	83086045	6	I	1: (CH3)3NH+[C3H9NHC]	

Certificates=1 Analyses=0 Incoming RAW

Cre Do DM D6

RLPAS New Cert. R-PAS

LABEL

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Arial 7

Document Other

### CERTIFIED REFERENCE MATERIAL

This document is designed and the certified value(s) and uncertainty(ies) are determined in accordance with Guide 35<sup>th</sup> and Eurochem / CITAC Guides<sup>1,2</sup>.

Lot N: D66812 Barcode: 87843743 Certification Date of S

Description of the Reference Material (CRM): Solution of: Al 1000mg/l; Ca 1000mg/l; Fe 1000mg/l; Na 10 1000mg/l; P 1000mg/l; Si 1000mg/l; V 1000mg/l; Zn 1000mg HNO<sub>3</sub>

Ref N: D5A8.1K.2N.L1.1

Certified value/ Uncertainty:	Element	Certified Value and Uncertainty [mg/l]	Metrological traceability:
998.8 ± 2.6	Al	998.8 ± 2.6	NIST SRM No 3101a Lot 060502
998.8 ± 1.4	Ca	998.8 ± 1.4	NIST SRM No 3109a Lot 130213
996.1 ± 3.1	Fe	996.1 ± 3.1	NIST SRM No 3126a Lot 140812
998.8 ± 2.1	Na	998.8 ± 2.1	NIST SRM No 3150a Lot 140812

## ***What we are specialists in?***

**CPAchem is an expert in the production of Custom-made standards:**



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



**Custom-made products specifications include: various components, various component concentrations, various matrices, various packaging**



**Short lead time for preparation:**

✓ **2 to 5 business days usually;**

✓ **Emergency orders within 24 hours.**



**50% of CPAchem's production is of custom-made standards.**





## ***Custom-made standards – Benefits for End-Users***



**Save place as they do not have to stock many raw-materials;**



**Save labour time as they do not have to mix raw-materials/ single element solutions in order to create solutions they need for their purposes;**



**Minimize the risk of obtaining solutions with wrong concentrations or incompatible elements;**



**Save time to document all the processes to assure traceability;**



**Save time for all types of control (incoming, intermediate, final);**



**Reduce costs.**



## **Custom-made standards – Benefits for Distributors**

 Custom-made standards allow bigger profit margins as usually the process of offering and persuading the end user takes more efforts and time

 Once a customer becomes persuaded to use and buy a custom standard, this customer stays “chained” to these standards

 Alongside custom product/s the end-users buy many stock solutions and increase their purchases

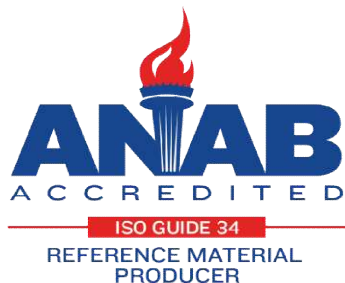
 The shelf-life of the products starts on the date they leave CPAchem's lab. CPAchem grants one month extra shelf-life to cover the transportation time and/or any storage in the distributor's warehouse.

For inorganic products the shelf-life is two times longer than the validity time to facilitate products storage into distributors warehouses.

For example – if the validity of given product is 12 months, its shelf-life is 24 months.



## CPAchem Accreditations



 ISO Guide 34 (CRM producer), from January 2018 – ISO 17034;






 ISO/IEC 17025 (Testing Laboratory);

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

 ISO 9001 certified since 2001, from 2017 – ISO 9001:2015 certified.




## **CPAchem's Certification**

-  Each CRM is accompanied with a Certificate of Analysis, reporting the actual values and not simply the calculated ones;
-  Created in accordance with ISO Guide 31 and ISO Guide 35;
-  Certified values and uncertainties are obtained on the basis of two independent methods when possible (even for multi-element solutions);
-  The uncertainties refer to each of the components separately and not to the uncertainty of the whole mixture;
-  The CoA of the organic solutions provides full traceability starting from the dissolution of the raw materials with their purity.

## What's new?

 We have just started new lab building construction on a 6 000 square meters terrain;

 Establishing a manufacturing facility is part of our goal to further develop our production lines and meet the increasing needs of certified reference materials and Pharmacopoeia products.



# Thank you for your attention!



**CPAchem Ltd.**

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