

## SPECIFICAȚII TEHNICE (F4.1)

Numărul procedurii de achiziție: **ocds-b3wdp1-MD-1663229648373 din 15.09.2022**

Denumirea procedurii de achiziție: **Reactivi și consumabile pentru laboratorul fizico-chimic**

Nr. d/o	Codul CPV	Denumirea bunurilor și specificația tehnică deplină solicitată	Modelul articolului	Țara de origine	Producătorul	Specificarea tehnică deplină	Specificarea tehnică deplină propusă de către ofertant	Standard de referință
2	33696500-0	Buffer solution, pH 6,86	910686	Germania	LLG	pH 6,86 (25°C). Ambalaj: 0,5 L.	pH 6.86 buffer solutions, LLG, Colour-coded, NIST™-traceable standard reference materials, Bottles of 475 ml	ISO
3	33696500-0	Buffer solution pH 4.01	6078957	Germania	Hamilton	pH 4,01 (25°C). Ambalaj: 0,5 L.	Buffer Solutions - Duracal pH Buffer 4.01, Certified traceable to primary SRM from NIST/PTB, Hamilton	ISO
4	33696500-0	Buffer solution pH 1.68	9221097	Germania	Hamilton	pH 1,68 (25°C). Ambalaj: 1 L.	Buffer Solutions - Duracal pH Buffer 1.68, Certified traceable to primary SRM from NIST/PTB, Hamilton	ISO
5	33696500-0	(+)-Isomenthone.	PHL89328-100MG	Germania	Sigma-Aldrich	Conform Ph.Eur. A colourless liquid, very slightly soluble in water, soluble in ethanol (96%). density: about 0.904; refractive index: about 1.453; optical activity: about + 93.2. Suitable for Gas chromatography; Content: minimum 80.0%, calculated by the normalisation procedure. Ambalaj: 100 mg.	Isomenthone phyproof® Reference Substance	ISO
6	33696500-0	Sabinene	PHL82342-100MG	Germania	Sigma-Aldrich	Conform Ph.Eur.: A colourless, oily liquid, suitable for Gas chromatography. Content: minimum 95.0%, calculated by the normalisation procedure. Ambalaj: 100mg.	Sabinene phyproof® Reference Substance	ISO
10	33696500-0	N,N-diethyl-m-toluamide	D100951-100G	Germania	Sigma-Aldrich	Reagent Ph. Eur., ≥98.0%; CAS: 134-62-3; densitate: 0.996 g/ml (20 C); indice de refracție: n20/D 1.52; ambalaj: 100 g.	N,N-Diethyl-3-methylbenzamide 97%	ISO
11	33696500-0	Phenacetin	PHR1249-1G	Germania	Sigma-Aldrich	CRM for melting point cu incertitudinea. Ambalaj: 2g	Phenacetin Pharmaceutical Secondary Standard; Certified Reference Material	ISO
13	33696500-0	Di-Potassium hydrogen phosphate	60356-1KG	Germania	Honeywell	98.0 - 101.0 % (dried substance); Monopotassium phosphate: maximum 2.5%; Chlorides: maximum 200 ppm; Sulfates: maximum 0.1 %; Iron: maximum 10 ppm; Sodium: maximum 0.1 %; Loss on drying: maximum 2.0 per cent. Ambalaj: 1kg.	Potassium phosphate dibasic, puriss. p.a., ACS Reagent, anhydrous, ≥99.0% (T), Honeywell	ISO

14	33696500-0	Sodium dihydrogen phosphate	71496-1KG	Germania	Sigma-Aldrich	99.0-101.0%. Ambalaj: 1 kg.	Sodium phosphate monobasic purum p.a., anhydrous, ≥99.0% (T)	ISO
15	33696500-0	Trometamol	252859-100G	Germania	Sigma-Aldrich	99.0-100.5% (dried subst); pH 10.0 to 11.5; Related substances conform Ph.Eur; Chlorides max 100ppm; Iron max. 10ppm; Loss on drying max 0.5%; Sulfated ash max 0.1%; Ambalaj: 100g.	Tris(hydroxymethyl)aminomethane ACS reagent, ≥99.8%	ISO
16	33696500-0	Titrant 5 for KF one component titration	34801-1L	Germania	Honeywell	one-component reagent for volumetric Karl Fischer titration; titr-5 mg H <sub>2</sub> O/ml. Ambalaj: 1L.	HYDRANAL™ - Titrant 5, Titrating agent for volumetric two-component Karl Fischer titration (methanol-based), Honeywell	ISO
17	33696500-0	HEXAN	34859-1L	Germania	Honeywell	≥98,0% (GC), gradul: pentru HPLC; impurități: ≤0,0005% substanțe nevolatile; ≤0,001% acid liber (ca CH <sub>3</sub> COOH); ≤0,01% apă (prin Karl Fischer); reziduu după evaporare: ≤ 1 mg/l; aciditate: ≤ 0.0002 meq/g; alcalinitate: ≤ 0.0002 meq/g; indice de refracție n <sub>20</sub> /D: 1,375; densitate: 0,66 g/mL (la 20 °C); transmitanță la 210 nm: ≥50%; la 220nm: ≥85%; la 245nm: ≥98%. Temperatura de fierbere: 69 °C; Temperatura de topire: - 94,3 °C; UV absorbție (referință: apă): la 200 nm: A <sub>max</sub> : ≤0.70, la 225 nm: A <sub>max</sub> : ≤0.10, la 250 nm: A <sub>max</sub> : ≤0.01. Ambalaj: 1 L	Hexane, CHROMASOLV™, for HPLC, ≥97.0% (GC), Honeywell	ISO
18	33696500-0	Polyamide 6	181110-500G	Germania	Sigma-Aldrich	tip PIA6-210/310 sau PIA6-120/321. Ambalaj: 100g.	Nylon 6 pellets	ISO
19	33696500-0	Potassium nitrate	31263-100G	Germania	Sigma-Aldrich	99.0-101.0%; acidity and alkalinity: conform Ph.Eur; reducible substances: conform Ph.Eur; sulfates: max 150ppm; ammonium: max 100ppm; calcium: max 100ppm; iron: max 20ppm; sodium: max 0.1%; loss on drying: max 0.5%; Ambalaj: 100g.	Potassium nitrate puriss. p.a., ACS reagent, reagent, ISO, reagent, Ph. Eur., ≥99%	ISO
20	33696500-0	Perchloric acid	30755-1L	Germania	Sigma-Aldrich	reagent, Ph. Eur., 70.0-72.0%. Ambalaj: 0.5 L	Perchloric acid puriss. p.a., ACS reagent, reagent, ISO, reagent, Ph. Eur., 70.0-72.0%	ISO
21	33696500-0	Absolute ethanol	2222-1L	Germania	CHEMSOLUTE	≥99.5 % V/V, conform Ph. Eur.; Acidity <0.0005meq/g, Alkalinity <0.0002meq/g, Absorbance at 240nm < 0.40 Absorbance at 250 to 260nm <0.30, Absorbance at 270 to 340nm <0.10. Ambalaj: 2.5L	Ethanol absolute for HPLC (min. 99.9 %), CHEMSOLUTE®	ISO
23	33696500-0	Camphene	456055-25G	Germania	Sigma-Aldrich	>90%. Ambalaj: 50g	Camphene 95%	ISO
24	33696500-0	Potassium periodate	210056-100G	Germania	Sigma-Aldrich	reagent, Ph.Eur. Ambalaj: 100g	Potassium periodate ACS reagent, 99.8%	ISO
25	33696500-0	Acetone for HPLC	34850-2.5L	Germania	Sigma-Aldrich	Purity (GC) > 99.90 % _Water (by Karl Fischer) < 0.5 % , impurities ≤0.0005% non-volatile matter, ≤0.002% free acid (as CH <sub>3</sub> COOH), transmittance 330 nm, ≥15%, 335 nm, ≥50%, 340 nm, ≥80%, 350 nm, ≥98%. Ambalaj: 1L	Acetone suitable for HPLC, ≥99.8%	ISO

26	33696500-0	Tartaric acid	251380-100G	Germania	Sigma-Aldrich	99.5-101.0% (dried subst); Specific optical rotation: + 12.0 to + 12.8 (dried substance); Oxalic acid: maximum 360 ppm, calculated as anhydrous oxalic acid.; Chlorides: maximum 100 ppm.; Sulfates: maximum 150 ppm.; Calcium: maximum 200 ppm.; Loss on drying: maximum 0.2 per cent.; Sulfated ash: maximum 0.1 per cent. Ambalaj: 50g	L-(+)-Tartaric acid ACS reagent, ≥99.5%	ISO
27	33696500-0	Iodine	13380-50G	Germania	Sigma-Aldrich	Content: 99.5 per cent to 100.5 per cent of I.; Bromides and chlorides: maximum 250 ppm.; Non-volatile substances: maximum 0.1 per cent.. Ambalaj: 50g	Iodine ReagentPlus®, ≥99.8% (titration)	ISO
29	33696500-0	2,4,6-Trinitrophenol (picric acid)	197378-100G	Germania	Sigma-Aldrich	conform PhEur. Ambalaj:50g	Picric acid moistened with water, ≥98%	ISO
31	33696500-0	Methoxyphenylacetic acid	248975-5G	Germania	Sigma-Aldrich	PURITY (TLC AREA %) ≥ 98.5 %, APPEARANCE (COLOR) White to Off White, APPEARANCE (FORM) Powder or Crystal or Chunk(s), TITRATION (T) NAOH 0.1M 98.5 - 101.5 %. Ambalaj: 5g	α-Methoxyphenylacetic acid 99%	ISO
32	33696500-0	Chlorobenzene anhydrous	284513-100ML	Germania	Sigma-Aldrich	PURITY ≥ 99.8%, Appearance (Form) Liquid , Infrared spectrum Conforms to Structure, Purity (GC) > 99.75 % , Water (by Karl Fischer) < 0.005 % , Residue on Evaporation < 0.0005 % . Ambalaj: 100mL	Chlorobenzene anhydrous, 99.8%	ISO
33	33696500-0	Boric acid	31146-500G	Germania	Sigma-Aldrich	>99.5% reagent Ph.Eur., Pb < 0.001%, chlorides<0.0003%, sulphate<0.0005%, phosphate<0.0005%.Ambalaj: 100g	Boric acid puriss. p.a., ACS reagent, reagent ISO, reagent Ph. Eur., buffer substance, ≥99.8%	ISO
34	33696500-0	Benzanilide	108227-100G	Germania	Sigma-Aldrich	>97.5% reagent Ph.Eur. Ambalaj: 100g	Benzanilide 98%	ISO
35	33696500-0	2-Octyl-1-dodecanol	464481-25ML	Germania	Sigma-Aldrich	Appearance (Form) Liquid, GC (area %) > 96.5 % .Ambalaj: 25mL	2-Octyl-1-dodecanol 97%	ISO
36	33696500-0	Cesium chloride	C3032-25G	Germania	Sigma-Aldrich	conform PhEur. Ambalaj:50g	Cesium chloride for molecular biology, ≥99% (silver nitrate titration)	ISO
37	33696500-0	Hydrindantin dihydrate	53940-10G	Germania	Sigma-Aldrich	>98%. Ambalaj: 10g	Hydrindantin dihydrate for Stein-Moore-Chromatography, LiChropur™	ISO
38	33696500-0	Ethylene oxide solution	48838	Germania	Sigma-Aldrich	50mg/ml in methanol. Ambalaj: 1ml.	Ethylene oxide solution certified reference material, 50 mg/mL in methanol	ISO
39	33696500-0	Ethylene oxide solution	CRM47949	Germania	Sigma-Aldrich	2mg/ml in dichloromethane. Ambalaj: 1ml.	Ethylene oxide solution certified reference material, 2000 µg/mL in dichloromethane, ampule of 1 mL	ISO
45	33696500-0	microseringa 10 mkL	5181-3354	Germania	Agilent	seringa 10mkL, ac ingustat, fixat, plunyor cu capac PTFE, 23/42/HP, cod: 5181-3354	seringa 10mkL, ac ingustat, fixat, plunyor cu capac PTFE, 23/42/HP	ISO
46	33696500-0	plunyor cu capac PTFE pentru seringa 10mkL	5181-3365	Germania	Agilent	plunyor cu capac PTFE, seringa 10mkL, cod: 5181-3365	plunyor cu capac PTFE, seringa 10mkL	ISO
47	33696500-0	Termometru p/u frigider din sticla	TC-7-M1	Ucraina	Steclopribor	p/u frigider, t= -30°C - +30°C diviziunea 0,5 sau 0,1 cu certificat etalonare -20°C - + 5°C	p/u frigider, t= -30°C - +30°C diviziunea 0,5 sau 0,1 cu certificat etalonare -20°C - + 5°C	ISO
48	33696500-0	Spatula-“st. steel”-“micro spoon”	047.06.180	Germania	Isolab	Material: oțel inoxidabil; cu microlingură; lungimea: 180 mm; lățimea lamei: 10 mm; lungimea lamei: 35 mm; diametrul tije: 3,5 mm; autoclavabilă (047.06.180)	Material: oțel inoxidabil; cu microlingură; lungimea: 180 mm; lățimea lamei: 10 mm; lungimea lamei: 35 mm; diametrul tije: 3,5 mm;	ISO

55	33696500-0	Capace pentru vialuri de 2ml (septa and cap)	096.01.001	Germania	Isolab	pentru HPLC cu autosampler	Capace pentru vialuri de 1,5ml (septa and cap)	ISO
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Semnat: \_\_\_\_\_

Valabilitatea ofertei: 60 zile

Numele, Prenumele: **Michiciuc Gheorghe**

29.09.2022

In calitate de: **Director**

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