

Anexa nr. 1 (fizico-chimie)

	Denumirea bunurilor/serviciilor/lucrărilor solicitate	Unitatea de măsură	Cantitatea	Specificarea tehnică deplină solicitată, Standarde de referință
1.	Alcool etilic 96%	L	100	95.1 % V/V - 96.9 % V/V; bp: about 78 °C; Acidity or alkalinity conform Ph.Eur. Relative density: 0.805 - 0.812; Residue on evaporation: maximum 25 ppm; Ambalaj: 1 L.
2.	Buffer solution, pH 6,86	L	1	pH 6,86 (25°C). Ambalaj: 0,5 L.
3.	Buffer solution pH 4.01	L	1	pH 4,01 (25°C). Ambalaj: 0,5 L.
4.	Buffer solution pH 1.68	L	1	pH 1,68 (25°C). Ambalaj: 1 L.
5.	(+)-Isomenthone.	mg	100	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.
6.	Sabinene	mg	100	Conform Ph.Eur.: A colourless, oily liquid, suitable for Gas chromatography. Content: minimum 95.0%, calculated by the normalisation procedure. Ambalaj: 100mg.
7.	Refractive index standart kit 1	buc	1	isooctan/apă; testat la 20°C; cu încertitudinea măsurării.
8.	Refractive index standart kit 2	buc	1	toluen/apă; testat la 20°C; cu încertitudinea măsurării.
9.	Refractive index standart kit 3	buc	2	1-Methyl-naphthalene/apă; testat la 20°C; cu încertitudinea măsurării.
10.	N,N-diethyl-m-toluamide	g	100	Reagent Ph. Eur., ≥98.0%; CAS: 134-62-3; densitate: 0.996 g/ml (20 C); indice de refracție: n ₂₀ /D 1.52; ambalaj: 100 g.
11.	Phenacetin	g	2	CRM for melting point cu incertitudinea. Ambalaj: 2g
12.	Peroxid de hydrogen 30%	L	100	Content: 29.0% - 31.0% m/m; Acidity conform Ph.Eur.; Organic stabilisers: maximum 500 ppm; Non-volatile residue: maximum 2 g/L. Ambalaj: 2.5L.
13.	Di-Potassium hydrogen phosphate	kg	1	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.
14.	Sodium dihydrogen phosphate	kg	1	99.0-101.0%. Ambalaj: 1 kg.
15.	Trometamol	g	100	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.

16.	Titrant 5 for KF one component titration	L	1	one-component reagent for volumetric Karl Fischer titration; titr-5 mg H ₂ O/ml. Ambalaj: 1L.
17.	HEXAN	L	2	≥98,0% (GC), gradul: pentru HPLC; impurități: ≤0,0005% substanțe nevolatile; ≤0,001% acid liber (ca CH ₃ 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 ₂₀ /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: Amax: ≤0.70, la 225 nm: Amax: ≤0.10, la 250 nm: Amax: ≤0.01. Ambalaj: 1 L
18.	Polyamide 6	g	100	tip ΠA6-210/310 sau ΠA6-120/321. Ambalaj: 100g.
19.	Potassium nitrate	g	25	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.
20.	Perchloric acid	L	0,5	reag. Ph. Eur., 70.0-72.0%. Ambalaj: 0.5 L
21.	Absolute ethanol	L	2,5	≥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
22.	Potassium permanganate	g	100	reag. Ph. Eur., ≥99%. Ambalaj: 100g.
23.	Camphene	g	50	>90%. Ambalaj: 50g
24.	Potassium periodate	g	100	reag. Ph.Eur. Ambalaj: 100g
25.	Acetone for HPLC	L	1	Purity (GC) > 99.90 % _ Water (by Karl Fischer) < 0.5 % , impurities ≤0.0005% non-volatile matter, ≤0.002% free acid (as CH ₃ COOH), transmittance 330 nm, ≥15%, 335 nm, ≥50%, 340 nm, ≥80%, 350 nm, ≥98%. Ambalaj: 1L
26.	Tartaric acid	g	50	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
27.	Iodine	g	50	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
28.	1-methylhexylamine (2-aminoheptane)	ml	100	PURITY (GC AREA %) ≥ 98.5 %, APPEARANCE (COLOR) Colorless, APPEARANCE (FORM) Liquid. Ambalaj: 100ml
29.	2,4,6-Trinitrophenol (picric acid)	g	50	conform PhEur. Ambalaj:50g

30.	Dimetilsulfoxide for GC	L	2,5	conform Ph.Eur, for GC-HeadSpace. Ambalaj: 2.5L
31.	Methoxyphenylacetic acid	g	5	PURITY (TLC AREA %) \geq 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
32.	Chlorobenzene anhydrous	mL	100	PURITY \geq 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
33.	Boric acid	g	100	$>$ 99.5% reag. Ph.Eur., Pb $<$ 0.001%, chlorides $<$ 0.0003%, sulphate $<$ 0.0005%, phosphate $<$ 0.0005%.Ambalaj: 100g
34.	Benzanilide	g	100	$>$ 97.5% reag. Ph.Eur. Ambalaj: 100g
35.	2-Octyl-1-dodecanol	mL	25	Appearance (Form) Liquid, GC (area %) $>$ 96.5 % .Ambalaj: 25mL
36.	Cesium chloride	g	50	conform PhEur. Ambalaj:50g
37.	Hydrindantin dihydrate	g	10	$>$ 98%. Ambalaj: 10g
38.	Ethylene oxide solution	ml	2	50mg/ml in methanol. Ambalaj: 1ml.
39.	Ethylene oxide solution	ml	2	2mg/ml in dichloromethane. Ambalaj: 1ml.
40.	Nessler cylinder	buc	10	20ml - Class A - Borosilicate Glass - for Colorimetric Analysis.
41.	Nessler cylinder	buc	20	50ml - Class A - Borosilicate Glass - for Colorimetric Analysis.
42.	Adsorber tube with tubing nipple	buc	5	Height 155mm; Inner diameter 32mm; SGJ size B-14/15.
43.	Fused silica tubing	buc	1	I.D. 75 μ m \pm 3 μ m / O.D. 280 μ m \pm 10 μ m, 5 meters(LCP# FS-75)
44.	Fused silica tubing	buc	1	I.D. 50 μ m \pm 3 μ m / O.D. 280 μ m \pm 10 μ m, 5 meters(LCP# FS-50)
45.	microseringa 10 mkL	buc	2,00	seringa 10mkL, ac ingustat, fixat, plunjor cu capac PTFE, 23/42/HP, cod: 5181-3354
46.	plunjor cu capac PTFE pentru seringă 10mkL	buc	4,00	plunjor cu capac PTFE, seringă 10mkL, cod: 5181-3365
47.	Termometru p/u frigider din sticla	buc	20	p/u frigider, t= -30°C - +30°C diviziunea 0,5 sau 0,1 cu certificat etalonare -20°C - + 5°C
48.	Spatula-“st. steel”-“micro spoon”	buc	20	Material: oțel inoxidabil; cu microlingură; lungimea: 180 mm; lățimea lamei: 10 mm; lungimea lamei: 35 mm; diametrul tijei: 3,5 mm; autoclavabilă (047.06.180)
49.	Mănuși nitril marimea L	buc	500	Mănuși de nitril, nepudrate, ambidextre, nesterile, albastre, rezistente la acizi și baze. Nu conțin cauciuc natural din latex. Manșetă: lungă, rotunjită (pentru protecție mai eficientă)

50.	Cuveta pentru polarimetru P-2000 (Jasco)	buc	2	Cylindrical glass cell 10 mm x 100 mm, Model CG1-100 (1103-1101A)
51.	Agitator magnetic cilindric lungimea: 20 mm	buc	5	Material: PTFE; formă: cilindrică, cu inel central (pentru balone cu fund neregulat); diametrul 6 mm; lungimea: 20 mm
52.	Pre-column Coupler 1/16 pentru coloana Intersil ODS-3V	buc	10	GL Sciences Pre-column Coupler SUS (6010-49210)
53.	Electrod pH	buc	1	ЭСЛ-43-07СР. compatibil cu pH metru И-160М
54.	Electrod pH de referinta	buc	1	ЭБЛ-1М3.1. compatibil cu pH metru И-160М
55.	Capace pentru vialuri de 2ml (septa and cap)	buc	2000	pentru HPLC cu autosampler
56.	Indicatori chimici pentru sterilizarea cu aburi 121 grade, 15 min.	buc	1000	Indicatori chimici pentru sterilizarea cu aburi. Care arată schimbarea culorii la atingerea nivelului de presiune și temperatură. Conform ISO 11140-1:2014. Clasa a 4-a. Termen minim de valabilitate 2 ani. Cu certificat de conformitate.

Conducătorul grupului de lucru: _____

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