



**МИНИСТЕРСТВО НА ОКОЛНАТА СРЕДА И ВОДИТЕ**  
**ИЗПЪЛНИТЕЛНА АГЕНЦИЯ ПО ОКОЛНА СРЕДА**  
**ГД „ЛАБОРАТОРНО – АНАЛИТИЧНА ДЕЙНОСТ“**

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**СПИСЪК НА СЕРТИФИЦИРАНИТЕ РЕФЕРЕНТНИ МАТЕРИАЛИ – ГЪВКАВ ОБХВАТ**

№ по ред	Наименование, идентификационен № на производител	Сертифицирана стойност на величина	Неопределеност	Свидетелство/ Сертификат № / дата, издадено от, срок на валидност
1	2	3	4	5
1.	Multielement standard solution for ICP-MS, N9300233.L1			867414, CPAchem, Exp. Date:12.01.2025
	Ag	9,998 mg/l	0,024 mg/l	
	Al	10,088 mg/l	0,032 mg/l	
	As	10,013 mg/l	0,035 mg/l	
	Ba	9,964 mg/l	0,033 mg/l	
	Ca	10,077 mg/l	0,022 mg/l	
	Cd	9,931 mg/l	0,034mg/l	
	Cr	9,953 mg/l	0,028 mg/l	
	Co	9,945 mg/l	0,032mg/l	
	Cu	9,943 mg/l	0,024 mg/l	
	Fe	9,952 mg/l	0,030 mg/l	
	K	9,981 mg/l	0,026 mg/l	
	Pb	10,009 mg/l	0,036 mg/l	
	Mn	9,946 mg/l	0,028 mg/l	
	Ni	9,969 mg/l	0,037 mg/l	
	Na	9,964 mg/l	0,024 mg/l	
	Se	9,994 mg/l	0,056 mg/l	
	V	9,952 mg/l	0,028 mg/l	
	Zn	9,963 mg/l	0,029 mg/l	
	Sr	10,054 mg/l	0,068 mg/l	
	U	9,982 mg/l	0,034 mg/l	
	Tl	9,987 mg/l	0,048 mg/l	

2.	<p>Certified reference material for ICP-MS, 5183-4682.L1</p> <p>As Ag Al Ba Ca Cd Co Cr Cu Fe K Mg Mn Na Ni Pb Sr Tl Zn U Sb Se V Mo</p>	<p>10,008 mg/l 10,037 mg/l 10,037 mg/l 9,929 mg/l 1006,9 mg/l 10,037 mg/l 10,006 mg/l 10,064 mg/l 9,923 mg/l 1009,8 mg/l 1005,2 mg/l 1002,7 mg/l 10,062 mg/l 1006,2 mg/l 10,048 mg/l 9,999 mg/l 100,83 mg/l 10,014 mg/l 10,009 mg/l 10,043 mg/l 10,015 mg/l 10,000 mg/l 10,008 mg/l 9,951 mg/l</p>	<p>0,039 mg/l 0,020 mg/l 0,030 mg/l 0,028 mg/l 2,1 mg/l 0,027 mg/l 0,027 mg/l 0,029 mg/l 0,022 mg/l 3,3 mg/l 3,0 mg/l 2,5 mg/l 0,020 mg/l 2,3 mg/l 0,027 mg/l 0,025 mg/l 0,68 mg/l 0,031 mg/l 0,026 mg/l 0,035 mg/l 0,036 mg/l 0,051 mg/l 0,028 mg/l 0,030 mg/l</p>	<p>867416, CPAchem, Exp. Date:23.01.2025</p>
3.	<p>Certified Reference Material, RM004039L5.25</p> <p>Li Y Ce Co Tl</p>	<p>0,00994 mg/l 0,01013 mg/l 0,01018 mg/l 0,00991 mg/l 0,01000 mg/l</p>	<p>0,00004 mg/l 0,00004 mg/l 0,00005 mg/l 0,00005 mg/l 0,00009 mg/l</p>	<p>818680, CPAchem, Exp. Date:30.11.2023</p>

4.	Certified reference material , MB56A.K1.5N.L1			782592, CPAchem, Exp. Date:28.11.2023
	Al	99,62mg/l	0,038mg/l	
	Ag	100,05mg/l	0,31mg/l	
	As	99,46mg/l	0,054mg/l	
	Ca	99,93mg/l	0,23mg/l	
	Cd	99,49mg/l	0,47mg/l	
	Co	99,86mg/l	0,38mg/l	
	Cr	99,83mg/l	0,44mg/l	
	Cu	100,28mg/l	0,27mg/l	
	Fe	100,17mg/l	0,36mg/l	
	K	99,36mg/l	0,37mg/l	
	Mg	99,80mg/l	0,24mg/l	
	Mn	98,98mg/l	0,36mg/l	
	Na	100,11mg/l	0,19mg/l	
	N	100,17mg/l	0,38mg/l	
	Pb	99,93mg/l	0,52mg/l	
	Se	100,44mg/l	0,63mg/l	
	Sr	100,25mg/l	0,34mg/l	
	V	100,39mg/l	0,32mg/l	
	Zn	99,29mg/l	0,37mg/l	

5.	NIST Standart Reference Material 1643f, Trace Elements in Water			SRM 1643f, NIST, Exp.Date:01.08.2025
	Al	133,8µg/l	1,2µg/l	
	Sb	55,45µg/l	0,40µg/l	
	As	57,42 µg/l	0,38µg/l	
	B	152,3µg/l	6,6µg/l	
	Ba	518,2 µg/l	7,3 µg/l	
	Be	13,67 µg/l	0,12 µg/l	
	Cd	5,89 µg/l	0,13 µg/l	
	Cr	18,50 µg/l	0,10 µg/l	
	Co	25,30 µg/l	0,17 µg/l	
	Cu	21,66 µg/l	0,71 µg/l	
	Fe	93,44 µg/l	0,78 µg/l	
	Pb	18,488 µg/l	0,084 µg/l	
	Mn	37,14 µg/l	0,60 µg/l	
	Mo	115,3 µg/l	1,7 µg/l	
	Ni	59,8 µg/l	1,4 µg/l	
	K	1932,6 µg/l	9,4µg/l	
	Na	18830 µg/l	250µg/l	
	Se	11,7 µg/l	0,081 µg/l	
	Ag	0,9703 µg/l	0,0055 µg/l	
	Sr	314 µg/l	19 µg/l	
	Te	0,9770 µg/l	0,0084 µg/l	
	T	6,892 µg/l	0,035 µg/l	
	V	36,07 µg/l	0,28 µg/l	
	Zn	74,4 µg/l	1,7 µg/l	
6.	Certifiied Reference Material-Hg, M424.5NP.L1	10,028 mg/l	0,062 mg/l	867413, CPAchem, Exp. Date:12.01.2025
7.	Certifiied Reference Material – Mercury (Hg), M424.5NP.L1	10,028 mg/l	0,062 mg/l	818662, CPAchem, Exp. Date: Date:27.05.2024

8.	Certified reference material for ICP-MS, 5183-4688.L1			827212, CPAchem, Exp. Date:07.07.2024
	As	10,063 mg/l	0,054 mg/l	
	Ag	10,007 mg/l	0,020 mg/l	
	Al	10,024 mg/l	0,038 mg/l	
	Ba	10,018 mg/l	0,044 mg/l	
	Ca	1001,4 mg/l	2,3 mg/l	
	Cd	9,998 mg/l	0,028 mg/l	
	Co	9,989 mg/l	0,028 mg/l	
	Cr	10,010 mg/l	0,031 mg/l	
	Cu	10,031 mg/l	0,027 mg/l	
	Fe	1005,9 mg/l	3,7 mg/l	
	K	1000,0 mg/l	3,1 mg/l	
	Mg	1005,9 mg/l	2,5 mg/l	
	Mn	9,980 mg/l	0,025 mg/l	
	Na	999,8 mg/l	2,7 mg/l	
	Ni	9,998 mg/l	0,048 mg/l	
	Pb	10,006 mg/l	0,029 mg/l	
	Tl	9,977 mg/l	0,055 mg/l	
	Zn	10,003 mg/l	0,027 mg/l	
	U	9,943 mg/l	0,036 mg/l	
	Sb	9,996 mg/l	0,047 mg/l	
	Se	9,983 mg/l	0,072 mg/l	
	V	10,036 mg/l	0,040 mg/l	
	Mo	10,019 mg/l	0,040 mg/l	
9.	Certified reference material for ICP-MS, Boron, C005.W.L5	1003,7 mg/l	2,8 mg/l	836254, CPAchem Exp.Date:20.08.2024

10.	Certified reference material for ICP-MS ERM – CA713, Wastewater, 0944			0944, ERM Exp.Date:30.09.2024
	As	10,8	0,3	
	Cd	5,09	0,20	
	Cr	20,9	1,3	
	Cu	101	7	
	Fe	445	27	
	Hg	1,84	0,11	
	Mn	95	4	
	Ni	50,3	1,4	
	Pb	49,7	1,7	
	Se	4,9	1,1	
11.	4-Nonylphenol-ethoxylate (penta-) (technical) (branched) № 15631018	99,00%	5,0%	158881, Dr.Ehrenstorfer Exp.Date:14.11.2024
12.	4-n-Nonylphenol, RD00031910.6	100,29 µg/ml	1,03 µg/ml	867388, CPAchem, Exp.Date:13.01.2025
13.	4-n-Nonylphenol, RD00031910.2	99,99 µg/ml	1,25 µg/ml	819895, CPAchem, Exp.Date:04.06.2024
14.	4-n-Nonylphenol D8 , № P835480	100,03 mg/dm <sup>3</sup>	1,47 mg/dm <sup>3</sup>	867387, CPAchem Exp. Date:13.01.2025
15.	4-tert-Octylphenol, DRE-C15712100	98,64%(g/g)	0,30%(g/g)	G1089997, dr.Ehrenstorfer, Exp.Date:21.09.2026
16.	4-tert-Octylphenol, RD0122051.6	99,96 µg/ml	1,20 µg/ml	867389, CPAchem, Exp.Date:13.01.2024
17.	4,4'-DDT D8, DRE-XA12082100AC	99,98µg/ml	5,01 µg/ml	H1302318AC, dr.Ehrenstorfer, Exp.Date:07.12.2027
18.	4,4'-DDE D8, DRE-XA12041100AC	100,00µg/ml	5,00 µg/ml	H1292648AC, dr.Ehrenstorfer, Exp.Date:02.01.2028
19.	α-HCH – D6, DRE-XA14071400CY	99,69 mg/l	4,99mg/l	H1070557CY, dr.Ehrenstorfer Exp. Date: 25.06.2025
20.	Atrazine – D5, P874100	100,17 µg/ml	2,01 µg/ml	867376, CPAchem, Exp.Date:13.01.2025

21.	Acetochlor, SB73.100MG	93,7%	0,1%	867359, CPAchem, Exp.Date: 12.01.2025
22.	CRM Organic standart Solution, RD0040701.5  Alachlor Ametryn Atrazine Metolachlor Pendimetalin Prometryne Propazine Simazine Terbuthylazine- Terbutryn Trifluralin	10,020 µg/ml 10,127 µg/ml 10,080 µg/ml 9,994 µg/ml 10,026 µg/ml 10,072 µg/ml 10,047µg/ml 10,171 µg/ml 10,109 µg/ml 10,053 µg/ml 10,043 µg/ml	0,127 µg/ml 0,141 µg/ml 0,174 µg/ml 0,140µg/ml 0,130µg/ml 0,195µg/ml 0,211 µg/ml 0,121µg/ml 0,138µg/ml 0,146 µg/ml 0,133 µg/ml	867369, CPAchem, Exp.Date: 13.01.2024
23.	Acetochlor, P802770	100,47 µg/ml	1,19 µg/ml	867401, CPAchem Exp. Date: 13.01.2025
24.	CRM Organic Standart Solution, F115751  Ametryn Atraton Atrazine Prometon Prometryn Propazine Secbumeton Simetryn Simazine Terbuthylazine Terbutryn	101,06 µg/ml 101,59 µg/ml 100,82 µg/ml 100,70 µg/ml 100,82 µg/ml 100,97 µg/ml 100,27 µg/ml 100,60 µg/ml 99,89 µg/ml 100,26 µg/ml 100,64 µg/ml	1,46 µg/ml 1,67 µg/ml 1,92 µg/ml 1,96 µg/ml 1,74 µg/ml 1,49 µg/ml 1,54 µg/ml 1,87 µg/ml 1,46 µg/ml 1,22 µg/ml 1,33 µg/ml	867368, CPAchem, Exp.Date: 12.01.2025
25.	Trifluralin-D14 in Acetonitrile, P856710	99,99 µg/ml	2,20 µg/ml	867394, CPAchem, Exp.Date: 13.01.2025
26.	Organic standart solution, RD00406610.6  PCB28	9,952µg/ml	0,117 µg/ml	867367, CPAchem, Exp.Date: 14.01.2024

	PCB52	10,078µg/ml	0,171 µg/ml	
	PCB101	9,962µg/ml	0,120 µg/ml	
	PCB138	10,047µg/ml	0,117 µg/ml	
	PCB153	10,000µg/ml	0,116 µg/ml	
	PCB180	10,018µg/ml	0,130 µg/ml	
	Aldrin	10,080µg/ml	0,123 µg/ml	
	Cis-Chlordane	10,047µg/ml	0,332 µg/ml	
	Trans-Chlordane	9,980µg/ml	0,216µg/ml	
	2,4-DDD	9,981µg/ml	0,138µg/ml	
	4,4-DDD	10,044µg/ml	0,110µg/ml	
	2,4-DDE	10,000µg/ml	0,109µg/ml	
	4,4-DDE	10,042µg/ml	0,116µg/ml	
	2,4-DDT	10,002µg/ml	0,111µg/ml	
	4,4-DDT	10,015µg/ml	0,132µg/ml	
	Dieldrin	9,957µg/ml	0,112µg/ml	
	Alpha-Endosulphane	10,055µg/ml	0,230µg/ml	
	Beta-Endosulphane	9,984µg/ml	0,120µg/ml	
	Endrin-	9,951µg/ml	0,119µg/ml	
	Alpha-HCH	10,061µg/ml	0,121µg/ml	
	Beta-HCH	10,001µg/ml	0,113µg/ml	
	Gamma-HCH	10,089µg/ml	0,105µg/ml	
	Delta-HCH	10,030µg/ml	0,367µg/ml	
	epsilon-HCH	10,000µg/ml	0,159µg/ml	
	Heptachlor	10,000µg/ml	0,267µg/ml	
	Heptachlor-exo-epoxide	10,112µg/ml	0,223µg/ml	
	Heptachlor-endo-epoxide	9,977µg/ml	0,144µg/ml	
	Hexachlorobenzene	10,025µg/ml	0,110µg/ml	
	Isodrin	10,083µg/ml	0,174µg/ml	
	Methoxychlor	10,030µg/ml	0,134µg/ml	
	Mirex	10,130µg/ml		
27.	Organic standart solution, RD00407210.5			867370, CPAchem, Exp.Date: 14.01.2024
	Aldrin	10,083 µg/ml	0,114 µg/ml	
	cis-Chlordane	10,044 µg/ml	0,275 µg/ml	
	trans-Chlordane	10,048 µg/ml	0,122 µg/ml	
	2,4'-DDD	10,132 µg/ml	0,122 µg/ml	
	4,4'-DDD	10,051 µg/ml	0,122 µg/ml	



	2,4'-DDT 4,4'-DDT 2,4'-DDE 4,4'-DDE Dieldrin alpha-Endosulphane beta-Endosulphane Endrin alpha-HCH beta-HCH gamma-HCH Heptachlor Heptachlor-epoxide(cis) Heptachlor-epoxide(trans) Hexachlorobenzene Metoxychlor	10,037 µg/ml 10,028 µg/ml 10,046 µg/ml 10,005 µg/ml 10,012 µg/ml 10,073 µg/ml 10,201 µg/ml 10,061 µg/ml 10,072 µg/ml 10,055 µg/ml 10,008 µg/ml 10,069 µg/ml 10,072 µg/ml 10,114 µg/ml 10,013 µg/ml 10,088 µg/ml	0,124 µg/ml 0,137 µg/ml 0,130 µg/ml 0,126 µg/ml 0,134 µg/ml 0,123 µg/ml 0,113 µg/ml 0,104 µg/ml 0,148 µg/ml 0,181 µg/ml 0,126 µg/ml 0,164 µg/ml 0,272 µg/ml 0,118 µg/ml 0,133 µg/ml 0,110 µg/ml	
28.	Simetryn, DRE-XA16970000CY	100,00 µg/ml	2,22 µg/ml	H1005672CY, dr.Ehrenstorfer, Exp. Date: 26.03.2024
29.	Diuron in Acetonitrile, DRE-XA13020000AL	99,84 µg/ml	2,12µg/ml	H20412AL, dr.Ehrenstorfer / Exp. Date: 26.04.2027
30.	Diuron in Acetonitrile, DRE-XA13020000AL	99,99 µg/ml	2,40µg/ml	H20412AL, dr.Ehrenstorfer / Exp. Date: 26.04.2027
31.	Diuron D6 in Acetone, DRE-XA13020100AC	100,01 µg/ml	5,01µg/ml	H119013AC, dr.Ehrenstorfer / Exp. Date: 18.02.2027
32.	Isoproturon in Acetonitrile, DRE-XA14470000AL	100,03 µg/ml	0,21µg/ml	H1005666AL, dr.Ehrenstorfer / Exp. Date: 18.03.2024
33.	Isoproturon D6 in Acetonitrile, P829850	100,26 µg/ml	2,78µg/ml	819892, CPAchem, Exp. Date: 09.06.2024
34.	Isoproturon D6 in Acetonitrile, DRE-XA14470100	100,01 mg/l	5,01mg/l	Dr. Ehrenstorfer, H1080310AC/ Exp. Date: 19.10.2024
35.	Alachlor –d13,DRE-XA 10060100	100,01 mg/l	5,01mg/l	Dr. Ehrenstorfer, H1243759AC/ Exp. Date: 29.06.2027
36.	Naphthalene (в ацетонитрил), DRE-XA20905000AL	98,8 µg/ml	7µg/ml	2-H456914ME, Dr. Ehrenstorfer Exp. Date:21.12.2025

37.	Linuron, P830200	100,19 mg/dm <sup>3</sup>	1,58mg/l	819893, CPAchem, Exp. Date: 09.06.2024
38.	Linuron, P830200	100,37 mg/dm <sup>3</sup>	1,66mg/l	867386, CPAchem, Exp. Date: 12.01.2025
39.	Chlorpyriphos D10 , RD00416010.8	100,43 mg/dm <sup>3</sup>	2,05mg/l	867383, CPAchem, Exp. Date: 15.01.2025
40.	Chlorfenvinphos (diethyl) D10, DRE-Xa11290100AC	100,02mg/l	5,01µg/ml	Dr. Ehrenstorfer ,H1139486AC/ Exp. Date:16.07.2026
41.	Organic standart solution, RD0040731.6			867371, CPAchem Exp. Date:12.01.2024
	Alachlor	50,39 µg/ml	0,60 µg/ml	
	Ametryn	50,30 µg/ml	0,74 µg/ml	
	Atrazine	49,95 µg/ml	0,70 µg/ml	
	Chlorpyrifos	50,19 µg/ml	0,58 µg/ml	
	Diazinon	51,36 µg/ml	0,60 µg/ml	
	Malathion	51,11 µg/ml	0,55 µg/ml	
	Metolachlor	51,65 µg/ml	0,70 µg/ml	
	Parathion	49,96 µg/ml	0,57 µg/ml	
	Parathion-methyl	50,16 µg/ml	0,65 µg/ml	
	Pendimethalin	50,26 µg/ml	0,68 µg/ml	
	Prometryn	50,12 µg/ml	0,84 µg/ml	
	Propazine	50,67 µg/ml	0,99µg/ml	
	Simazine	49,88 µg/ml	0,61 µg/ml	
	Terbuthylazine	49,92 µg/ml	1,04 µg/ml	
	Terbutryn	50,14 µg/ml	0,70 µg/ml	
	Trifluralin	50,08 µg/ml	0,71 µg/ml	
42.	Organic standart solution, RD0040761.4			819876, CPAchem Exp. Date:08.12.2023
	Chlorfenvinphos	200,02 µg/ml	2,77 µg/ml	
	Chlorpyrifos	201,16 µg/ml	2,34 µg/ml	
	Diazinon	200,85 µg/ml	2,36 µg/ml	
43.	Chlorpyrifos, P812650	100,10 µg/ml	1,10mg/l	819888, CPAchem, Exp. Date: 04.06.2024
44.	Chlorpyrifos, P812650	100,86 µg/ml	1,39mg/l	867382, CPAchem,

				Exp. Date: 13.01.2025
45.	Chlorfenvinphos, DRE-XA11290000CY	99,96 µg/ml	3,24 µg/ml	H1291350CY, Dr.Ehrenstorfer, Exp. Date: 09.01.2028
46.	Pentachlorobenzene, P846810	10,030 µg/ml	0,151mg/l	819896, CPAchem, Exp. Date: 08.06.2024
47.	Pentachlorobezene, DRE-L15960000CY	10,00 µg/mL	0,24 µg/mL	H1070350CY, Dr.Ehrenstorfer, Exp. Date: 25.06.2025
48.	Organic standart solution, RD00404610.6  PCB 28 PCB31 PCB52 PCB101 PCB105 PCB118 PCB126 PCB128 PCB 138 PCB 153 PCB156 PCB170 PCB180	  10,077 µg/ml 10,044 µg/ml 10,085 µg/ml 10,060 µg/ml 9,999 µg/ml 10,199 µg/ml 10,069 µg/ml 9,984 µg/ml 10,002 µg/ml 10,066 µg/ml 10,027 µg/ml 10,008 µg/ml 10,058 µg/ml	  0,206 µg/ml 0,198 µg/ml 0,144 µg/ml 0,156 µg/ml 0,183 µg/ml 0,137 µg/ml 0,232 µg/ml 0,189 µg/ml 0,184 µg/ml 0,142 µg/ml 0,159 µg/ml 0,136 µg/ml 0,187 µg/ml	867364, CPAchem Exp. Date: 13.01.2024
49.	PCB-Mix, DRE-L20032400IO  PCB 28 PCB 52 PCB 101 PCB 105 PCB 118 PCB 138 PCB 153 PCB 156 PCB 180	  10,0 µg/ml	  0,5 µg/ml	1098571IO, Dr.Ehrenstorfer, Exp. Date: 14.01.2026
50.	Organic standart solution, RD0167531.2  Bentazone	  995,0 µg/ml	  20,8 µg/ml	867373, CPAchem Exp. Date: 12.01.2024

	2,4-D Dicamba MCPA	1006,9 µg/ml 998,0 µg/ml 994,9 µg/ml	20,3 µg/ml 20,3 µg/ml 20,2 µg/ml	
51.	2,2',3,3',4,4',5,5',6,6' - Decachlorobiphenyl (PCB 209), DRE-X20020900CY	100,00 µg/ml	3,06µg/ml	H127894CY, Dr.Ehrenstorfer, Exp. Date: 18.08.2027
52.	1,3,5-Trichlorobenzene, RD00040871.7	100,03 µg/mL	1,22/mL	867393, CPAchem Exp. Date: 12.01.2024
53.	VOC Standart, DRE-YA19070013HE  Benzene Ethylbenzene Toluene o-xylene m-xylene p-xylene	 10017,93µg/mL 10005,72 µg/mL 10001,96 µg/mL 10012,32 µg/mL 10002,98 µg/mL 9997,19 µg/mL	 801,4µg/mL 800,46µg/mL 800,16µg/mL 800,99µg/mL 800,24µg/mL 799,78µg/mL	G1012825HE,Dr.Ehrenstorfer , Exp. Date: 08.06.2024
54.	VOC mix 20, DRE-XA05000020ME  Dichlorodifluoromethane Bromodichloromethane Tetrachloromethane Tribromomethane Trichloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane Dichloromethane Ethylbenzene Hexachloro-1,3-butadiene Naphtalene Styrene 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Toluene 1,2,3-Trichlorobenzene	 200,0 µg/ml 200,1 µg/ml 200,3 µg/ml 200,0 µg/ml 200,1µg/ml 200,0µg/ml 200,0µg/ml 200,0µg/ml 200,0 µg/ml 200,1µg/ml 200,4µg/ml 200,1µg/ml 200,4µg/ml 200,1µg/ml 200,0µg/ml 200,0µg/ml 200,2µg/ml 200,4µg/ml 200,1µg/ml 198,2µg/ml 200,0µg/ml	 40,0 µg/ml 40,0 µg/ml 40,1 µg/ml 40,01 µg/ml 40,0 µg/ml 40,01 µg/ml 40,01 µg/ml 40,01 µg/ml 40,0 µg/ml 40,1 µg/ml 40,1 µg/ml 40,03 µg/ml 40,00 µg/ml 40,01 µg/ml 40,04 µg/ml 40,08 µg/ml 40,03 µg/ml 39,6 µg/ml 40,0 µg/ml	1274230ME,Dr.Ehrenstorfer , Exp. Date: 23.11.2023

	1,2,4-Trichlorobenzene	200,0µg/ml	40,01 µg/ml	
	1,1,1-Trichloroethane	200,1µg/ml	40,0 µg/ml	
	1,1,2-Trichloroethane	200,2µg/ml	40,0 µg/ml	
	Trichloroethene	200,4 µg/ml	40,1 µg/ml	
	o-Xylene	200,2µg/ml	40,04 µg/ml	
	m-Xylene	200,1µg/ml	40,02 µg/ml	
	p-Xylene	200,2µg/ml	40,04 µg/ml	
	VOC Standart Solution, RD0089451			832471, CPA chem, Exp. Date:05.08.2024
55.	Dichlorodifluoromethane	200,34 µg/ml	1,86 µg/ml	
	Bromodichloromethane	199,91 µg/ml	1,89 µg/ml	
	Tetrachloromethane	199,23 µg/ml	1,86 µg/ml	
	Tribromomethane	200,38 µg/ml	1,87 µg/ml	
	Trichloromethane	199,64µg/ml	1,86 µg/ml	
	1,2-Dichlorobenzene	202,89µg/ml	1,89 µg/ml	
	1,3-Dichlorobenzene	199,74µg/ml	1,86 µg/ml	
	1,4-Dichlorobenzene	201,09µg/ml	1,87 µg/ml	
	1,1-Dichloroethane	200,72 µg/ml	2,92 µg/ml	
	1,2-Dichloroethane	200,98µg/ml	1,87 µg/ml	
	Dichloromethane	200,64µg/ml	1,87 µg/ml	
	Ethylbenzene	200,33µg/ml	1,87 µg/ml	
	Hexachloro-1,3-butadiene	199,71µg/ml	1,86 µg/ml	
	Naphtalene	200,42µg/ml	1,87 µg/ml	
	Styrene	200,23µg/ml	1,86 µg/ml	
	1,1,1,2-Tetrachloroethane	201,71µg/ml	1,88 µg/ml	
	1,1,2,2-Tetrachloroethane	200,45µg/ml	1,87 µg/ml	
	Toluene	200,18µg/ml	1,86 µg/ml	
	1,2,3-Trichlorobenzene	199,68µg/ml	1,86 µg/ml	
	1,2,4-Trichlorobenzene	200,23µg/ml	1,86 µg/ml	
	1,1,1-Trichloroethane	200,39µg/ml	2,12 µg/ml	
	1,1,2-Trichloroethane	199,73µg/ml	1,86 µg/ml	
	Trichloroethene	201,13 µg/ml	1,87 µg/ml	
	o-Xylene	201,67µg/ml	1,88 µg/ml	
	m-Xylene	200,08µg/ml	1,86 µg/ml	
	p-Xylene	201,68µg/ml	1,88 µg/ml	
	Tetrachloroethene	199,88µg/ml	1,86 µg/ml	

	Chloromethane	199,99µg/ml	1,86 µg/ml	
56.	Dicofol, DRE-XA12570000	100,01 µg/ml	2,12 µg/ml	H1211125CY, Dr. Ehrenstorfer, Exp. Date:09.08.2025
57.	Dicofol, DRE-L12570000CY	10,00 µg/ml	0,32 µg/ml	H1290909CY, Dr. Ehrenstorfer, Exp. Date:09.01.2028
58.	VOC Standart, DRE-YA08020300HE			1117679ME,Dr.Ehrenstorfer , Exp. Date: 17.02.2025
	Benzene	1999,3µg/mL	120,0µg/mL	
	Ethylbenzene	2001,6 µg/mL	120,1µg/mL	
	Toluene	2002,4 µg/mL	120,2µg/mL	
	o-xylene	2001,5µg/mL	120,1µg/mL	
	m-xylene	2002,6 µg/mL	120,2µg/mL	
	p-xylene	2000,0 µg/mL	120,0µg/mL	
	1,2-Dichlorobenzene	2000,1µg/mL	120,0µg/mL	
	1,3-Dichlorobenzene	2000,1 µg/mL	120,0µg/mL	
	1,4-Dichlorobenzene	2000,2 µg/mL	120,0µg/mL	
59.	Chlordecone hydrate, RD0040801.6	100,15 µg/ml	1,84 µg/ml	867380, CPA chem, Exp. Date:12.01.2024
60.	Benzo(j)fluoranthene, DRE-L20575000	10,00 µg/ml	0,22 µg/ml	H1245695CY, Dr. Ehrenstorfer Exp. Date:23.08.2027
61.	Benzo(j)fluoranthene, P874300	10,061mg/l	0,313mg/l	819882, CPA chem, Exp. Date:09.12.2023
62.	PAH standart, RD00405210.7			867365, CPAchem Exp. Date:14.01.2024
	Acenaphthene	10,015 ng/µl	0,152 ng/µl	
	Acenaphtylene	10,070 ng/µl	0,148ng/µl	
	Anthracene	10,002 ng/µl	0,151ng/µl	
	Benz(a)anthracene	10,094 ng/µl	0,152 ng/µl	
	Benzo(b)fluoranthene	9,989 ng/µl	0,284ng/µl	
	Benzo(k)fluoranthene	10,088 ng/µl	0,152ng/µl	

	Benzo(g,h,i)perylene Benzo(a)pyrene Benzo(e)pyrene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene Naphtalene Perylene Phenanthrene Pyrene	10,099 ng/μl 10,021ng/μl 10,132 ng/μl 10,062ng/μl 9,992ng/μl 10,112 ng/μl 9,964 ng/μl 10,031 ng/μl 9,998ng/μl 10,002 ng/μl 10,018 ng/μl 9,989 ng/μl	0,151ng/μl 0,153ng/μl 0,271ng/μl 0,152ng/μl 0,152ng/μl 0,150ng/μl 0,151ng/μl 0,151ng/μl 0,151ng/μl 0,168ng/μl 0,151 ng/μl 0,152 ng/μl	
63.	PAH standart, PAH-Mix 9, DRE-XA20950009CY  Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene Indeno(1,2,3-cd)pyrene	  99,99 μg/ml 100,00 μg/ml 99,98 μg/ml 100,01 μg/ml 99,99 μg/ml 99,98 μg/ml 100,01 μg/ml 100,01 μg/ml 100,01 μg/ml 100,00 μg/ml 100,01 μg/ml 99,99 μg/ml 100,01 μg/ml 100,00 μg/ml 99,99 μg/ml 99,99 μg/ml 100,00 μg/ml	  2,16 μg/ml 2,04 μg/ml 2,21 μg/ml 2,04 μg/ml 2,04 μg/ml 2,16 μg/ml 2,04 μg/ml 2,04 μg/ml 3,09 μg/ml 3,10 μg/ml 3,07 μg/ml 3,10 μg/ml 2,06 μg/ml 2,04 μg/ml 3,17 μg/ml 3,07 μg/ml	G1074610CY, Dr. Ehrenstorfer Exp. Date:04.01.2024
64.	Organic standart solution, RD01675210.2  Bentazone 2,4-D Dicamba MCPA	  20,031 μg/ml 20,038 μg/ml 20,013 μg/ml 19,969 μg/ml	  0,322 μg/ml 0,291 μg/ml 0,268 μg/ml 0,279 μg/ml	867372, CPAchem Exp. Date: 15.01.2024

65.	PAH standart , RD0040531.25 Acenaphthene-d10 Chrysene-d12 Naphthalene-d8 Perylene-d12 Phenanthrene-d10	995,7µg/ml 997,6µg/ml 1005,8µg/ml 996,7µg/ml 1002,6µg/ml	11,7µg/ml 11,6µg/ml 11,8µg/ml 11,7µg/ml 15,8µg/ml	819870, CPAchem Exp. Date: 05.06.2024
66.	PAH standart , FM487894 Acenaphthene-d10 Chrysene-d12 Naphthalene-d8 Perylene-d12 Phenanthrene-d10	995,7µg/ml 997,6µg/ml 1005,8µg/ml 996,7µg/ml 1002,6µg/ml	11,7µg/ml 11,6µg/ml 11,8µg/ml 11,7µg/ml 15,8µg/ml	867366, CPAchem Exp. Date: 12.01.2025
67.	Pentachlorophenol in Methanol, DRE-XA15970000ME	100,04 µg/cm <sup>3</sup>	2,12 µg/cm <sup>3</sup>	H1232869ME, Dr. Ehrenstorfer 05.08.2027
68.	Pentachlorophenol acetate, DRE-XA15971000CY	99,98 µg/mL	2,13 µg/mL	H1190291CY, Dr. Ehrenstorfer, Exp. Date:21.09.2026
69.	Benzo(a)pyrene , DRE-XA20635000	100,0 µg/mL	2,13 µg/mL	H1153964CY, Dr. Ehrenstorfer, Exp. Date:13.01.2026
70.	Benzo(e)pyrene, P806920	100,31mg/l	2,18 mg/l	819885, CPAchem, Exp. Date:09.06.2024
71.	Benzo(e)pyrene, P806920	100,31mg/l	2,18 mg/l	867379, CPAchem, Exp. Date:12.01.2025
72.	Benzo(a)pyrene D12, P806860	100,26mg/l	2,29 mg/l	819884, CPAchem, Exp. Date:09.06.2024
73.	Gamma-HCH D6, RD0137071.8	100,17mg/l	2,43 mg/l	867385, CPAchem, Exp. Date:13.01.2024
74.	Prometon, P849130	10,021 µg/mL	0,134 µg/mL	819897, CPAchem, Exp. Date:09.06.2024



75.	Hexachloro-1,3-butadiene, DRE-XA14170000ME	100,0 µg/mL	2,0 µg/mL	1063193ME, Dr. Ehrenstorfer 18.05.2025
76.	Phthalatic acid, bis-butyl ester, SB5090.500MG	99,8%	0,1%	867403, CPAchem, Exp. Date:15.01.2025
77.	Phthalatic acid, bis-iso butyl ester, SB9540.250MG	99,3%	0,1%	867404, CPAchem, Exp. Date:12.01.2025
78.	Phthalatic acid, bis-ethyl ester, SB5100.500MG	99,8%	0,1%	867402, CPAchem, Exp. Date: 12.01.2025
79.	Phthalatic acid, bis-2-ethylhexyl ester D4, DRE-XA16173010CY	100,05 µg/mL	5,01 µg/mL	H1187320CY, Dr. Ehrenstorfer 16.02.2027
80.	Bis(-2-ethylhexyl) phthalate, DRE-GA09011139ME	100,6 µg/mL	7,5 µg/mL	2-H428343ME, Dr. Ehrenstorfer Exp. Date:14.01.2024
81.	Phthalate Esters Standart, F233844  Phthalatic acid,benzylbutyl ester Phthalatic acid, bis-2-nbutoxyethyl ester Phthalatic acid, bis-2-ethoxyethyl ester Phthalatic acid, bis-2-ethylhexyl ester Phthalatic acid, bis-methylglycol ester Phthalatic acid, bis-butyl ester Phthalatic acid, bis-ethyl ester Phthalatic acid, bis-hexyl ester Phthalatic acid, bis-methyl ester Phthalatic acid, bis-nonyl ester Phthalatic acid, bis-octyl ester Phthalatic acid, bis-n-pentyl ester Dicyclohexyl phthalate Phthalatic acid, bis-iso-butyl ester Phthalatic acid, bis-4-methyl-2-pentyl ester	  1003,3 µg/mL 1000,6 µg/mL 1002,6 µg/mL 1006,6 µg/mL 1000,8 µg/mL 999,0 µg/mL 1003,0 µg/mL 999,6 µg/mL 1007,7 µg/mL 1007,3 µg/mL 1006,0 µg/mL 1000,0 µg/mL 1000,6 µg/mL 999,5 µg/mL 1002,5 µg/mL	  9,5 µg/mL 10,1 µg/mL 11,2 µg/mL 9,5 µg/mL 9,5 µg/mL 9,5 µg/mL 9,9 µg/mL 10,0 µg/mL 10,3 µg/mL 9,9 µg/mL 9,5 µg/mL 9,6 µg/mL 9,5 µg/mL 12,5 µg/mL	867396, CPAchem, Exp. Date:12.01.2025
82.	Aclonifen, DRE-C10042000	99,30% (g/g)	0,95% (g/g)	G1253107, Dr. Ehrenstorfer Exp. Date:23.05.2026

83.	CRM, RD0983361.4 $\alpha$ -Hexabromocyclododecane - $\beta$ - Hexabromocyclododecane $\gamma$ - Hexabromocyclododecane	100,00 $\mu\text{g/mL}$ 99,93 $\mu\text{g/mL}$ 100,40 $\mu\text{g/mL}$	2,25 $\mu\text{g/mL}$ 2,22 $\mu\text{g/mL}$ 2,82 $\mu\text{g/mL}$	936323, CPAchem, Exp. Date:18.10.2024
84.	CRM, RD0809021.4 Perfluorooctane sulfonic acid Perfluorooctanoic acid	100,45 $\mu\text{g/mL}$ 100,27 $\mu\text{g/mL}$	1,77 $\mu\text{g/mL}$ 1,44 $\mu\text{g/mL}$	936327, CPAchem, Exp. Date:18.10.2024
85.	CRM, RD0979701.4 Acetochlor Aclonifen	99,81 $\mu\text{g/mL}$ 100,40 $\mu\text{g/mL}$	1,21 $\mu\text{g/mL}$ 1,82 $\mu\text{g/mL}$	936325, CPAchem, Exp. Date:19.10.2024
86.	PBDE 28, DRE-A15898028NO-50	49,73 $\mu\text{g/mL}$	2,4 $\mu\text{g/mL}$	2-H431895NA, Dr. Ehrenstorfer Exp. Date:14.12.2025
87.	PBDE 100, DRE-A15898100NO-50	50,5 $\mu\text{g/mL}$	3,8 $\mu\text{g/mL}$	2-H431235NA, Dr. Ehrenstorfer Exp. Date:13.12.2025
88.	PBDE 153, DRE-A15898153NO-50	49,49 $\mu\text{g/mL}$	3,5 $\mu\text{g/mL}$	2-H431900NA, Dr. Ehrenstorfer Exp. Date:14.12.2025
89.	PBDE 154, DRE-A15898154NO-50	50,0 $\mu\text{g/mL}$	3,8 $\mu\text{g/mL}$	2-H431234NA, Dr. Ehrenstorfer Exp. Date:13.12.2025
90.	BDE 47, RD0171101.2	50,29 $\mu\text{g/mL}$	1,77 $\mu\text{g/mL}$	867398, CPAchem, Exp. Date:13.01.2024
91.	BDE 99, RD0171111.2	50,30 $\mu\text{g/mL}$	0,76 $\mu\text{g/mL}$	867399, CPAchem, Exp. Date:13.01.2024
92.	BDE 77, RD0313771.10	50,17 $\mu\text{g/mL}$	1,67 $\mu\text{g/mL}$	867400, CPAchem, Exp. Date:13.01.2024
93.	Chloroparaffin C10-C13 55,5%Cl, DRE-A23105500CY-100	99,9 $\mu\text{g/mL}$	2,0 $\mu\text{g/mL}$	1-1018377CY, Dr. Ehrenstorfer Exp. Date:19.09.2024

94.	Chloroparaffin C10-C13 63%Cl, DRE-A23106300CY-100	99,9 µg/mL	3,0 µg/mL	1-1018379CY, Dr. Ehrenstorfer Exp. Date:19.09.2024
95.	Chloroparaffin C10-C13 51,5%Cl, DRE-A23105100CY-100	100,0 µg/mL	3,0 µg/mL	1-1018376CY, Dr. Ehrenstorfer Exp. Date:26.08.2024

Изготвил: .....  
ОМО, РЛ Варна - главен експерт

Дата: 23.10.2023 г.