

Amount of substance, organic solutions, United States, NIST (National Institute of Standards and Technology)

Note: In the case where an uncertainty range is given, the expanded uncertainty range spans from the smallest numerical value of the uncertainty to the largest numerical value of the uncertainty found within the quantity range.

Note: The expanded uncertainty for certified values in reference materials is given at a 95% level of confidence, but the coverage factor is not explicitly equal to 2

NMI Service Identifier	Measurement Service Sub-Category	Matrix	Measurand		Dissemination Range of Measurement Capability			Range of Expanded Uncertainties as Disseminated						Range of Certified Values in Reference Materials			Range of Expanded Uncertainties for Certified Value						Mechanism(s) for Measurement Service Delivery
			Analyte or Component	Quantity	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?	
8392001	Other	organic solution	2,3,7,8-tetrachlorodibenzo-p-dioxin	Mass fraction	10	150	µg/kg	3	7	%	2	95%	Yes	98	98	µg/kg	3.4	3.4	%		95%	Yes	SRM 1614 QA for Providers of Water Quality Proficiency Testing as described in NIST NVLAP Handbook 150-19
8392002	PAHs	multicomponent organic solution	1,3-dinitropyrene	Mass fraction	1	5	mg/kg	1	2	%	2	95%	Yes	2.1	2.1	mg/kg	1.4	1.4	%		95%	Yes	SRM 1596
8392003	PAHs	multicomponent organic solution	1,6-dinitropyrene	Mass fraction	2	8	mg/kg	3	5	%	2	95%	Yes	4.82	4.82	mg/kg	3.5	3.5	%		95%	Yes	SRM 1596
8392004	PAHs	multicomponent organic solution	1,8-dinitropyrene	Mass fraction	5	10	mg/kg	1.5	2.5	%	2	95%	Yes	7.9	7.9	mg/kg	1.9	1.9	%		95%	Yes	SRM 1596
8392005	PAHs	multicomponent organic solution	1-nitropyrene	Mass fraction	2	15	mg/kg	1.5	4	%	2	95%	Yes	4.38	8.95	mg/kg	1.8	3.1	%		95%	Yes	SRM 1596 SRM 1587
8392006	PAHs	multicomponent organic solution	2-nitrofluorene	Mass fraction	7	12	mg/kg	3	5	%	2	95%	Yes	9.67	9.67	mg/kg	4	4	%		95%	Yes	SRM 1587
8392007	PAHs	multicomponent organic solution	3-nitrofluoranthene	Mass fraction	7	12	mg/kg	0.5	1	%	2	95%	Yes	9.24	9.24	mg/kg	0.65	0.65	%		95%	Yes	SRM 1587
8392008	PAHs	multicomponent organic solution	6-nitrochrysene	Mass fraction	5	10	mg/kg	1	2	%	2	95%	Yes	8.13	8.13	mg/kg	1.4	1.4	%		95%	Yes	SRM 1587
8392009	PAHs	multicomponent organic solution	7-nitrobenz[a]anthracene	Mass fraction	7	12	mg/kg	2	3	%	2	95%	Yes	9.27	9.27	mg/kg	2.5	2.5	%		95%	Yes	SRM 1587
8392010	PAHs	multicomponent organic solution	9-nitroanthracene	Mass fraction	3	7	mg/kg	2	3	%	2	95%	Yes	5.01	5.01	mg/kg	2.2	2.2	%		95%	Yes	SRM 1587
8392011	PAHs	multicomponent organic solution	1-methylnaphthalene	Mass fraction	5	100	mg/kg	4	6	%	2	95%	Yes	12.4	75.7	mg/kg	4.0	5.3	%		95%	Yes	SRM 1491 SRM 2260
8392012	PAHs	multicomponent organic solution	1-methylphenanthrene	Mass fraction	5	100	mg/kg	2.5	4	%	2	95%	Yes	10.4	75.2	mg/kg	2.9	2.9	%		95%	Yes	SRM 1491 SRM 2260
8392013	PAHs	multicomponent organic solution	2,3,5-trimethylnaphthalene	Mass fraction	5	80	mg/kg	3.5	6	%	2	95%	Yes	9.9	67.5	mg/kg	4.0	5.2	%		95%	Yes	SRM 2260 SRM 1491
8392014	PAHs	multicomponent organic solution	2,6-dimethylnaphthalene	Mass fraction	5	100	mg/kg	3.5	5	%	2	95%	Yes	10.8	75.9	mg/kg	3.7	4.6	%		95%	Yes	SRM 1491 SRM 2260
8392015	PAHs	multicomponent organic solution	acenaphthene	Mass fraction	5	100	mg/kg	1	3	%	2	95%	Yes	10.89	78.9	mg/kg	1.4	2.7	%		95%	Yes	SRM 1491 SRM 1647d SRM 2260

Calibration and Measurement Capabilities

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			Analyte or Component	Quantity	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?	
8392016	PAHs	multicomponent organic solution	acenaphthylene	Mass fraction	5	100	mg/kg	0.5	2.5	%	2	95%	Yes	10.4	73.09	mg/kg	0.7	2.0	%		95%	Yes	SRM 1491 SRM 1647d SRM 2260
8392017	PAHs	multicomponent organic solution	anthracene	Mass fraction	0.5	80	mg/kg	0.5	7	%	2	95%	Yes	0.97	57.54	mg/kg	0.5	6.2	%		95%	Yes	SRM 1647d SRM 1491 SRM 2260
8392018	PAHs	multicomponent organic solution	benz[a]anthracene	Mass fraction	3	100	mg/kg	0.4	3	%	2	95%	Yes	4.9	66	mg/kg	0.41	2.7	%		95%	Yes	SRM 1647d SRM 1491 SRM 2260
8392019	PAHs	multicomponent organic solution	benzo[a]pyrene	Mass fraction	5	100	mg/kg	0.6	3	%	2	95%	Yes	6.19	68.6	mg/kg	0.6	2.4	%		95%	Yes	SRM 1491 QA for Providers of Water Quality Proficiency Testing as described in NIST NVLAP Handbook 150-19 SRM 1647d SRM 2260 SRM 1586
8392020	PAHs	multicomponent organic solution	benzo[b]fluoranthene	Mass fraction	3	100	mg/kg	0.6	3	%	2	95%	Yes	5.24	75.97	mg/kg	0.61	2.0	%		95%	Yes	SRM 1647d SRM 1491 SRM 2260
8392021	PAHs	multicomponent organic solution	benzo[e]pyrene	Mass fraction	5	100	mg/kg	0.5	1.5	%	2	95%	Yes	8.4	75.98	mg/kg	0.48	1.2	%		95%	Yes	SRM 1491 SRM 2260
8392022	PAHs	multicomponent organic solution	benzo[g,h,i]perylene	Mass fraction	3	100	mg/kg	0.6	3.5	%	2	95%	Yes	4.73	67.9	mg/kg	0.62	3.2	%		95%	Yes	SRM 1647d SRM 1491 SRM 2260
8392023	PAHs	multicomponent organic solution	benzo[k]fluoranthene	Mass fraction	3	100	mg/kg	0.5	2.5	%	2	95%	Yes	5.92	75.67	mg/kg	0.51	2.0	%		95%	Yes	SRM 1647d SRM 1491 SRM 2260
8392024	PAHs	multicomponent organic solution	biphenyl	Mass fraction	5	100	mg/kg	0.4	0.7	%	2	95%	Yes	10.5	76.1	mg/kg	0.38	0.6	%			Yes	SRM 1491 SRM 2260
8392025	PAHs	multicomponent organic solution	chrysene	Mass fraction	3	100	mg/kg	0.4	9	%	2	95%	Yes	4.65	76.6	mg/kg	0.43	8.5	%		95%	Yes	SRM 1647d SRM 1491 SRM 2260
8392026	PAHs	multicomponent organic solution	dibenz[a,h]anthracene	Mass fraction	3	80	mg/kg	1	7	%	2	95%	Yes	4.54	57.1	mg/kg	1.1	6.0	%		95%	Yes	SRM 1647d SRM 1491 SRM 2260
8392027	PAHs	multicomponent organic solution	fluoranthene	Mass fraction	5	100	mg/kg	0.5	2	%	2	95%	Yes	8.84	76.31	mg/kg	0.68	2.0	%		95%	Yes	SRM 1647d SRM 1491 SRM 2260

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8392028	PAHs	multicomponent organic solution	fluorene	Mass fraction	4	100	mg/kg	0.7	2	%	2	95%	Yes	6.09	75.62	mg/kg	0.74	2.0	%		95%	Yes	SRM 1491 SRM 1647d SRM 2260
8392030	PAHs	multicomponent organic solution	indeno[1,2,3-cd]pyrene	Mass fraction	3	80	mg/kg	0.7	2.5	%	2	95%	Yes	5.21	67.4	mg/kg	0.74	2.5	%		95%	Yes	SRM 1491 SRM 2260 SRM 1647d
8392031	PAHs	multicomponent organic solution	naphthalene	Mass fraction	5	150	mg/kg	0.8	6	%	2	95%	Yes	10.3	126.5	mg/kg	0.89	5.4	%		95%	Yes	SRM 1491 SRM 1586 SRM 1647d SRM 2260
8392032	PAHs	multicomponent organic solution	perylene	Mass fraction	5	70	mg/kg	0.4	0.7	%	2	95%	Yes	10.65	57.5	mg/kg	0.45	0.56	%		95%	Yes	SRM 1491 SRM 2260
8392033	PAHs	multicomponent organic solution	phenanthrene	Mass fraction	2	100	mg/kg	0.4	2	%	2	95%	Yes	4.33	76.01	mg/kg	0.46	2.0	%		95%	Yes	SRM 1491 SRM 1647d SRM 2260
8392034	PAHs	multicomponent organic solution	pyrene	Mass fraction	5	100	mg/kg	0.2	1.2	%	2	95%	Yes	8.81	76.2	mg/kg	0.19	1.1	%		95%	Yes	SRM 1647d SRM 1491 SRM 2260
8392035	Other	organic solution	2,3,7,8-tetrachlorodibenzo-p-dioxin-13C	Mass fraction	90	100	µg/kg	1.6	3.1	%	2	95%	Yes	96	96	µg/kg	1.6	1.6	%		95%	Yes	SRM 1614
8392036	PAHs	multicomponent organic solution	acenaphthene-d10	Mass fraction	5	10	mg/kg	2.5	3	%	2	95%	Yes	7.61	7.61	mg/kg	2.9	2.9	%		95%	yes	SRM 2270
8392037	PAHs	multicomponent organic solution	benzo[a]anthracene-d12	Mass fraction	25	50	mg/kg	2	2.5	%	2	95%	Yes	37.9	37.9	mg/kg	2.3	2.3	%		95%	Yes	SRM 2269
8392038	PAHs	multicomponent organic solution	benzo[a]pyrene-d12	Mass fraction	25	50	mg/kg	3	5	%	2	95%	Yes	37.3	44.1	mg/kg	3.0	4.8	%		95%	Yes	SRM 1586 SRM 2270
8392039	PAHs	multicomponent organic solution	benzo[ghi]perylene-d12	Mass fraction	25	50	mg/kg	2.5	3	%	2	95%	Yes	35.34	35.34	mg/kg	2.7	2.7	%		95%	Yes	SRM 2270
8392040	PAHs	multicomponent organic solution	biphenyl-d10	Mass fraction	5	10	mg/kg	2	3	%	2	95%	Yes	7.84	7.84	mg/kg	2.4	2.4	%		95%	Yes	SRM 2269
8392041	PAHs	multicomponent organic solution	dibenz[a,h]anthracene-d14	Mass fraction	5	10	mg/kg	2	3	%	2	95%	Yes	7.47	7.47	mg/kg	2.5	2.5	%		95%	Yes	SRM 2269
8392042	PAHs	multicomponent organic solution	fluoranthene-d10	Mass fraction	50	75	mg/kg	2.5	3	%	2	95%	Yes	62.6	62.6	mg/kg	2.7	2.7	%		95%	Yes	SRM 2269
8392043	PAHs	multicomponent organic solution	naphthalene-d8	Mass fraction	50	100	mg/kg	2.5	3	%	2	95%	Yes	77	77	mg/kg	2.9	2.9	%		95%	Yes	SRM 2270
8392044	PAHs	multicomponent organic solution	perylene-d12	Mass fraction	20	40	mg/kg	2.5	3	%	2	95%	Yes	29.9	29.9	mg/kg	2.5	2.5	%		95%	Yes	SRM 2270
8392045	PAHs	multicomponent organic solution	phenanthrene-d10	Mass fraction	30	40	mg/kg	2.5	3	%	2	95%	Yes	36.87	36.87	mg/kg	2.6	2.6	%		95%	Yes	SRM 2269

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			Analyte or Component	Quantity	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?	
8392046	PAHs	multicomponent organic solution	pyrene-d10	Mass fraction	50	100	mg/kg	2	2.5	%	2	95%	Yes	74.5	74.5	mg/kg	2.3	2.3	%		95%	Yes	SRM 2270
8392047	PCBs	multicomponent organic solution	PCB 1	Mass fraction	1	5	mg/kg	1.2	2	%	2	95%	Yes	2.997	2.997	mg/kg	1.4	1.4	%		95%	Yes	SRM 2262
8392048	PCBs	multicomponent organic solution	PCB 101	Mass fraction	0.25	5	mg/kg	1.2	2	%	2	95%	Yes	0.288	2.95	mg/kg	1.4	1.8	%		95%	Yes	SRM 1493 SRM 2262
8392049	PCBs	multicomponent organic solution	PCB 104	Mass fraction	1	5	mg/kg	0.8	1	%	2	95%	Yes	3.01	3.01	mg/kg	0.8	0.8	%		95%	Yes	SRM 2262
8392050	PCBs	multicomponent organic solution	PCB 105	Mass fraction	0.25	5	mg/kg	3	9	%	2	95%	Yes	0.286	2.96	mg/kg	3.1	8.7	%		95%	Yes	SRM 1493 SRM 2262
8392051	PCBs	multicomponent organic solution	PCB 118	Mass fraction	1	5	mg/kg	3	4	%	2	95%	Yes	2.99	2.99	mg/kg	3.2	3.2	%		95%	Yes	SRM 2262
8392052	PCBs	multicomponent organic solution	PCB 126	Mass fraction	0.25	5	mg/kg	1	4	%	2	95%	Yes	0.287	3.01	mg/kg	1.2	4.0	%		95%	Yes	SRM 1493 SRM 2262 SRM 2276
8392053	PCBs	multicomponent organic solution	PCB 128	Mass fraction	0.25	5	mg/kg	0.5	1	%	2	95%	Yes	0.29	2.99	mg/kg	0.66	0.8	%		95%	Yes	SRM 1493 SRM 2262
8392054	PCBs	multicomponent organic solution	PCB 138	Mass fraction	0.25	5	mg/kg	0.5	1.5	%	2	95%	Yes	0.287	2.94	mg/kg	0.49	1.2	%		95%	Yes	SRM 1493 SRM 2262
8392055	PCBs	multicomponent organic solution	PCB 153	Mass fraction	0.25	5	mg/kg	1.5	2	%	2	95%	Yes	0.288	2.96	mg/kg	1.7	1.9	%		95%	Yes	SRM 1493 SRM 2262
8392056	PCBs	multicomponent organic solution	PCB 169	Mass fraction	1	5	mg/kg	1.4	1.8	%	2	95%	Yes	2.97	2.97	mg/kg	1.4	1.4	%		95%	Yes	SRM 2276
8392057	PCBs	multicomponent organic solution	PCB 170	Mass fraction	0.25	5	mg/kg	1.5	2.5	%	2	95%	Yes	0.285	2.96	mg/kg	1.7	2.3	%		95%	Yes	SRM 1493 SRM 2262
8392058	PCBs	multicomponent organic solution	PCB 18	Mass fraction	0.25	5	mg/kg	0.9	2.5	%	2	95%	Yes	0.291	2.98	mg/kg	0.94	2.3	%		95%	Yes	SRM 1493 SRM 2262
8392059	PCBs	multicomponent organic solution	PCB 180	Mass fraction	0.25	5	mg/kg	1	2	%	2	95%	Yes	0.289	2.99	mg/kg	0.97	1.9	%		95%	Yes	SRM 1493 SRM 2262
8392060	PCBs	multicomponent organic solution	PCB 187	Mass fraction	0.25	5	mg/kg	0.7	1	%	2	95%	Yes	0.285	2.97	mg/kg	0.7	0.91	%		95%	Yes	SRM 1493 SRM 2262
8392061	PCBs	multicomponent organic solution	PCB 188	Mass fraction	1	5	mg/kg	1.5	2	%	2	95%	Yes	3.008	3.008	mg/kg	1.7	1.7	%		95%	Yes	SRM 2262
8392062	PCBs	multicomponent organic solution	PCB 195	Mass fraction	0.25	5	mg/kg	1	2	%	2	95%	Yes	0.289	2.974	mg/kg	1.1	2.0	%		95%	Yes	SRM 1493 SRM 2262
8392063	PCBs	multicomponent organic solution	PCB 201	Mass fraction	1	5	mg/kg	1	1.5	%	2	95%	Yes	3.001	3.001	mg/kg	1.0	1.0	%		95%	Yes	SRM 2262

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			Analyte or Component	Quantity	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?	
8392064	PCBs	multicomponent organic solution	PCB 206	Mass fraction	0.25	5	mg/kg	1.8	5	%	2	95%	Yes	0.259	2.9	mg/kg	1.9	4.6	%		95%	Yes	SRM 1493 SRM 2262
8392065	PCBs	multicomponent organic solution	PCB 209	Mass fraction	0.25	5	mg/kg	1.3	3.5	%	2	95%	Yes	0.290	2.99	mg/kg	1.4	3.3	%		95%	Yes	SRM 1493 SRM 2262
8392066	PCBs	multicomponent organic solution	PCB 28	Mass fraction	0.2	3	mg/kg	0.6	1	%	2	95%	Yes	0.288	3	mg/kg	0.59	0.59	%		95%	Yes	SRM 1493
8392067	PCBs	multicomponent organic solution	PCB 29	Mass fraction	1	5	mg/kg	3.5	4	%	2	95%	Yes	2.98	2.98	mg/kg	3.7	3.7	%		95%	Yes	SRM 2262
8392068	PCBs	multicomponent organic solution	PCB 44	Mass fraction	0.25	5	mg/kg	1.8	6	%	2	95%	Yes	0.289	2.977	mg/kg	1.8	5.5	%		95%	Yes	SRM 1493 SRM 2262
8392069	PCBs	multicomponent organic solution	PCB 52	Mass fraction	0.25	5	mg/kg	1	2.5	%	2	95%	Yes	0.286	2.996	mg/kg	1.1	2.1	%		95%	Yes	SRM 1493 SRM 2262
8392070	PCBs	multicomponent organic solution	PCB 66	Mass fraction	0.25	5	mg/kg	1.8	2.5	%	2	95%	Yes	0.292	2.97	mg/kg	1.9	2.4	%		95%	Yes	SRM 1493 SRM 2262
8392071	PCBs	multicomponent organic solution	PCB 77	Mass fraction	0.25	5	mg/kg	0.9	3.5	%	2	95%	Yes	0.284	3.04	mg/kg	0.91	3.3	%		95%	Yes	SRM 1493 SRM 2262 SRM 2276
8392072	PCBs	multicomponent organic solution	PCB 8	Mass fraction	1	5	mg/kg	8	10	%	2	95%	Yes	3.11	3.11	mg/kg	8.4	8.4	%		95%	Yes	SRM 2262
8392073	PCBs	multicomponent organic solution	PCB 87	Mass fraction	1	5	mg/kg	0.8	1	%	2	95%	Yes	3.00	3.00	mg/kg	0.8	0.8	%		95%	Yes	SRM 2262
8392074	Pesticides	multicomponent organic solution	2,4'-DDD	Mass fraction	250	3500	µg/kg	0.9	1.3	%	2	95%	Yes	299	3013	µg/kg	0.86	1.3	%		95%	Yes	SRM 1492 SRM 2261
8392075	Pesticides	multicomponent organic solution	2,4'-DDE	Mass fraction	250	3500	µg/kg	0.9	1	%	2	95%	Yes	303	3019	µg/kg	0.86	0.99	%		95%	Yes	SRM 2261 SRM 1492
8392076	Pesticides	multicomponent organic solution	2,4'-DDT	Mass fraction	250	3500	µg/kg	0.5	1	%	2	95%	Yes	307	2993	µg/kg	0.47	0.98	%		95%	Yes	SRM 2261 SRM 1492
8392077	Pesticides	multicomponent organic solution	4,4'-DDD	Mass fraction	100	9000	µg/kg	1	2	%	2	95%	Yes	296	3043	µg/kg	1.0	1.4	%		95%	Yes	SRM 1492 SRM 2261 QA for Providers of Water Quality Proficiency Testing as described in NIST NVLAP Handbook 150-19
8392078	Pesticides	multicomponent organic solution	4,4'-DDE	Mass fraction	100	6000	µg/kg	0.5	1.5	%	2	95%	Yes	306	3019	µg/kg	0.5	0.98	%		95%	Yes	SRM 1492 SRM 2261 QA for Providers of Water Quality Proficiency Testing as described in NIST NVLAP Handbook 150-19

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8392079	Pesticides	multicomponent organic solution	4,4'-DDT	Mass fraction	100	11000	µg/kg	0.6	1.5	%	2	95%	Yes	302	3004	µg/kg	0.6	0.99	%		95%	Yes	SRM 2261 SRM 1492 QA for Providers of Water Quality Proficiency Testing as described in NIST NVLAP Handbook 150-19
8392081	Pesticides	multicomponent organic solution	alpha-hexachlorocyclohexane	Mass fraction	2500	3500	µg/kg	5	10	%	2	95%	Yes	3000	3000	µg/kg	5	5	%		95%	Yes	SRM 2275
8392082	Pesticides	multicomponent organic solution	beta-hexachlorocyclohexane	Mass fraction	2500	3500	µg/kg	4	8.1	%	2	95%	Yes	2980	2980	µg/kg	4.0	4.0	%		95%	Yes	SRM 2275
8392083	Pesticides	multicomponent organic solution	cis-chlordane	Mass fraction	250	3500	µg/kg	0.6	1	%	2	95%	Yes	305	3012	µg/kg	0.63	0.98	%		95%	Yes	SRM 2261 SRM 1492
8392084	Pesticides	multicomponent organic solution	cis-nonachlor	Mass fraction	2500	3500	µg/kg	2.6	5.2	%	2	95%	Yes	2938	2938	µg/kg	2.6	2.6	%		95%	Yes	SRM 2275
8392085	Pesticides	multicomponent organic solution	dieldrin	Mass fraction	100	7000	µg/kg	0.7	1.5	%	2	95%	Yes	307	3012	µg/kg	0.66	1.3	%		95%	Yes	SRM 2261 SRM 1492 QA for Providers of Water Quality Proficiency Testing as described in NIST NVLAP Handbook 150-19
8392086	Pesticides	multicomponent organic solution	endosulfan sulfate	Mass fraction	2500	3500	µg/kg	2	3.9	%	2	95%	Yes	2926	2926	µg/kg	2.0	2.0	%		95%	Yes	SRM 2275
8392087	Pesticides	multicomponent organic solution	endosulfan-I	Mass fraction	2500	3500	µg/kg	1.3	2.6	%	2	95%	Yes	2883	2883	µg/kg	1.3	1.3	%		95%	Yes	SRM 2275
8392088	Pesticides	multicomponent organic solution	endosulfan-II	Mass fraction	2500	3500	µg/kg	2.3	4.7	%	2	95%	Yes	2943	2943	µg/kg	2.3	2.3	%		95%	Yes	SRM 2275
8392089	Pesticides	multicomponent organic solution	endrin	Mass fraction	100	7000	µg/kg	3	5	%	2	95%	Yes	2910	2910	µg/kg	3.4	3.4	%		95%	Yes	SRM 2275 QA for Providers of Water Quality Proficiency Testing as described in NIST NVLAP Handbook 150-19
8392090	Pesticides	multicomponent organic solution	gamma-chlordan	Mass fraction	2500	3500	µg/kg	2	4.1	%	2	95%	Yes	2954	2954	µg/kg	2.0	2.0	%		95%	Yes	SRM 2275
8392091	Pesticides	multicomponent organic solution	gamma-hexachlorocyclohexane	Mass fraction	200	7000	µg/kg	0.5	1	%	2	95%	Yes	310	3012	µg/kg	0.5	0.65	%		95%	Yes	SRM 2261 SRM 1492 QA for Providers of Water Quality Proficiency Testing as described in NIST NVLAP Handbook 150-19
8392092	Pesticides	multicomponent organic solution	heptachlor	Mass fraction	150	7000	µg/kg	0.8	2.5	%	2	95%	Yes	299	3020	µg/kg	0.8	2.3	%		95%	Yes	SRM 2261 SRM 1492 QA for Providers of Water Quality Proficiency Testing as described in NIST NVLAP Handbook 150-19

Calibration and Measurement Capabilities

NMI Service Identifier	Measurement Service Sub-Category	Matrix	Measurand		Dissemination Range of Measurement Capability			Range of Expanded Uncertainties as Disseminated						Range of Certified Values in Reference Materials			Range of Expanded Uncertainties for Certified Value						Mechanism(s) for Measurement Service Delivery
			Analyte or Component	Quantity	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?	
8392093	Pesticides	multicomponent organic solution	heptachlor epoxide	Mass fraction	100	7000	µg/kg	0.9	2.5	%	2	95%	Yes	307	3020	µg/kg	0.86	2.3	%		95%	Yes	SRM 2261 SRM 1492 QA for Providers of Water Quality Proficiency Testing as described in NIST NVLAP Handbook 150-19
8392094	Pesticides	multicomponent organic solution	hexachlorobenzene	Mass fraction	250	6000	µg/kg	0.5	1	%	2	95%	Yes	308	3005	µg/kg	0.47	0.65	%		95%	Yes	SRM 2261 SRM 1492 QA for Providers of Water Quality Proficiency Testing as described in NIST NVLAP Handbook 150-19
8392095	Pesticides	multicomponent organic solution	mirex	Mass fraction	250	3500	µg/kg	1	1.4	%	2	95%	Yes	306	3041	µg/kg	0.98	1.4	%		95%	Yes	SRM 2261 SRM 1492
8392096	Pesticides	multicomponent organic solution	oxychlorodane	Mass fraction	2500	3500	µg/kg	4.2	8.4	%	2	95%	Yes	2860	2860	µg/kg	4.2	4.2	%		95%	Yes	SRM 2275
8392097	Pesticides	multicomponent organic solution	trans-nonachlor	Mass fraction	250	3500	µg/kg	0.7	1.7	%	2	95%	Yes	297	3034	µg/kg	0.73	1.7	%		95%	Yes	SRM 1492 SRM 2261
8392098	Other	multicomponent acidified aqueous solution	alanine	Amount-of-substance concentration	3	5	mmol/l	3.6	3.6	%	2	95%	Yes	2.51	2.51	mmol/l	3.6	3.6	%		95%	Yes	SRM 2389
8392099	Other	multicomponent acidified aqueous solution	glycine	Amount-of-substance concentration	3	5	mmol/l	3.3	3.3	%	2	95%	Yes	2.45	2.45	mmol/l	3.3	3.3	%		95%	Yes	SRM 2389
8392100	Other	multicomponent acidified aqueous solution	arginine	Amount-of-substance concentration	3	5	mmol/l	4.8	4.8	%	2	95%	Yes	2.94	2.94	mmol/l	4.8	4.8	%		95%	Yes	SRM 2389
8392101	Other	multicomponent acidified aqueous solution	aspartic acid	Amount-of-substance concentration	3	5	mmol/l	3.6	3.6	%	2	95%	Yes	2.5	2.5	mmol/l	3.6	3.6	%		95%	Yes	SRM 2389
8392102	Other	multicomponent acidified aqueous solution	cystine	Amount-of-substance concentration	3	5	mmol/l	3.5	3.5	%	2	95%	Yes	1.16	1.16	mmol/l	3.5	3.5	%		95%	Yes	SRM 2389
8392103	Other	multicomponent acidified aqueous solution	glutamic acid	Amount-of-substance concentration	3	5	mmol/l	3.2	3.2	%	2	95%	Yes	2.47	2.47	mmol/l	3.2	3.2	%		95%	Yes	SRM 2389
8392104	Other	multicomponent acidified aqueous solution	histidine	Amount-of-substance concentration	3	5	mmol/l	3.9	3.9	%	2	95%	Yes	2.83	2.83	mmol/l	3.9	3.9	%		95%	Yes	SRM 2389
8392105	Other	multicomponent acidified aqueous solution	isoleucine	Amount-of-substance concentration	3	5	mmol/l	2.9	2.9	%	2	95%	Yes	2.39	2.39	mmol/l	2.9	2.9	%		95%	Yes	SRM 2389
8392106	Other	multicomponent acidified aqueous solution	leucine	Amount-of-substance concentration	3	5	mmol/l	3.6	3.6	%	2	95%	Yes	2.48	2.48	mmol/l	3.6	3.6	%		95%	Yes	SRM 2389
8392107	Other	multicomponent acidified aqueous solution	lysine	Amount-of-substance concentration	3	5	mmol/l	4.1	4.1	%	2	95%	Yes	2.47	2.47	mmol/l	4.1	4.1	%		95%	Yes	SRM 2389

Calibration and Measurement Capabilities

NMI Service Identifier	Measurement Service Sub-Category	Matrix	Measurand		Dissemination Range of Measurement Capability			Range of Expanded Uncertainties as Disseminated						Range of Certified Values in Reference Materials			Range of Expanded Uncertainties for Certified Value						Mechanism(s) for Measurement Service Delivery
			Analyte or Component	Quantity	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?	
8392108	Other	multicomponent acidified aqueous solution	methionine	Amount-of-substance concentration	3	5	mmol/l	3.7	3.7	%	2	95%	Yes	2.43	2.43	mmol/l	3.7	3.7	%		95%	Yes	SRM 2389
8392109	Other	multicomponent acidified aqueous solution	phenylalanine	Amount-of-substance concentration	3	5	mmol/l	3.3	3.3	%	2	95%	Yes	2.44	2.44	mmol/l	3.3	3.3	%		95%	Yes	SRM 2389
8392110	Other	multicomponent acidified aqueous solution	proline	Amount-of-substance concentration	3	5	mmol/l	3.7	3.7	%	2	95%	Yes	2.44	2.44	mmol/l	3.7	3.7	%		95%	Yes	SRM 2389
8392111	Other	multicomponent acidified aqueous solution	serine	Amount-of-substance concentration	3	5	mmol/l	3.7	3.7	%	2	95%	Yes	2.43	2.43	mmol/l	3.7	3.7	%		95%	Yes	SRM 2389
8392112	Other	multicomponent acidified aqueous solution	threonine	Amount-of-substance concentration	3	5	mmol/l	3.4	3.4	%	2	95%	Yes	2.39	2.39	mmol/l	3.4	3.4	%		95%	Yes	SRM 2389
8392113	Other	multicomponent acidified aqueous solution	tyrosine	Amount-of-substance concentration	3	5	mmol/l	3.6	3.6	%	2	95%	Yes	2.47	2.47	mmol/l	3.6	3.6	%		95%	Yes	SRM 2389
8392114	Other	multicomponent acidified aqueous solution	valine	Amount-of-substance concentration	3	5	mmol/l	3.3	3.3	%	2	95%	Yes	2.44	2.44	mmol/l	3.3	3.3	%		95%	Yes	SRM 2389
8392115	Other	multicomponent organic solution	bromodichloromethane	Mass concentration	40	4000	µg/ml	1.8	3.6	%	2	95%	Yes	390	390	µg/ml	1.8	1.8	%		95%	Yes	SRM 1639
8392116	Other	multicomponent organic solution	bromoform	Mass concentration	10	1000	µg/ml	1.6	3.2	%	2	95%	Yes	86.5	86.5	µg/ml	1.6	1.6	%		95%	Yes	SRM 1639
8392117	Other	multicomponent organic solution	carbon tetrachloride	Mass fraction	10	2000	mg/kg	0.4	2.8	%	2	95%	Yes	128.5	157	mg/kg	0.39	2.8	%		95%	Yes	SRM 1586 SRM 1639
8392118	Other	multicomponent organic solution	chlorobenzene	Mass fraction	10	1500	mg/kg	0.5	0.9	%	2	95%	Yes	133	133	mg/kg	0.45	0.45	%		95%	Yes	SRM 1586
8392119	Other	multicomponent organic solution	chlorodibromomethane	Mass concentration	10	1250	µg/ml	0.9	1.8	%	2	95%	Yes	125	125	µg/ml	0.88	0.88	%		95%	Yes	SRM 1639
8392120	Other	multicomponent organic solution	chloroform	Mass concentration	600	60000	µg/ml	5.5	11	%	2	95%	Yes	6235	6235	µg/ml	5.5	5.5	%		95%	Yes	SRM 1639
8392121	Other	multicomponent organic solution	tetrachloroethylene	Mass concentration	4	500	µg/ml	2.2	4.4	%	2	95%	Yes	40.6	40.6	µg/ml	2.2	2.2	%		95%	Yes	SRM 1639
8392122	Other	multicomponent organic solution	trichloroethylene	Mass concentration	9	1000	µg/ml	3	6.1	%	2	95%	Yes	86	86	µg/ml	3.0	3.0	%		95%	Yes	SRM 1639
8392123	Other	multicomponent organic solution	nitrobenzene	Mass fraction	100	150	mg/kg	1	1	%	2	95%	Yes	126	126	mg/kg	0.87	0.87	%		95%	Yes	SRM 1586
8392124	Other	organic solution	benzophenone	Mass concentration	0.5	10	µg/ml	1.5	2	%	2	95%	Yes	1.01	5.01	µg/ml	1.4	2.0	%		95%	Yes	SRM 1543
8392125	Other	multicomponent organic solution	bis(2-ethylhexyl)phthalate	Mass fraction	50	100	mg/kg	3	3	%	2	95%	Yes	63.9	63.9	mg/kg	2.7	2.7	%		95%	Yes	SRM 1586
8392126	Other	organic solution	methyl stearate	Mass concentration	0.5	10	µg/ml	2	2	%	2	95%	Yes	0.99	4.98	µg/ml	1.6	2.0	%		95%	Yes	SRM 1543
8392127	Other	octanol	water	Mass fraction	47.3	47.3	mg/g	2.1	2.1	%	2	95%	Yes	47.3	47.3	mg/g	2.1	2.1	%	2	95%	Yes	SRM 2890
8392128	Other	multicomponent organic solution	benzene	Mass fraction	10	1000	mg/kg	1	1.6	%	2	95%	Yes	101	101	mg/kg	0.79	0.79	%		95%	Yes	SRM 1586

Calibration and Measurement Capabilities

NMI Service Identifier	Measurement Service Sub-Category	Matrix	Measurand		Dissemination Range of Measurement Capability			Range of Expanded Uncertainties as Disseminated						Range of Certified Values in Reference Materials			Range of Expanded Uncertainties for Certified Value						Mechanism(s) for Measurement Service Delivery
			Analyte or Component	Quantity	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?	
8392133	Other	multicomponent organic solution	2,4,6-trichlorophenol	Mass fraction	20	30	mg/kg	10	10	%	2	95%	Yes	25.8	25.8	mg/kg	9.3	9.3	%		95%	Yes	SRM 1584
8392134	Other	multicomponent organic solution	2,4-dichlorophenol	Mass fraction	80	120	mg/kg	0.6	4	%	2	95%	Yes	102.5	102.5	mg/kg	0.6	3.6	%		95%	Yes	SRM 1586 SRM 1584
8392135	Other	multicomponent organic solution	2,4-dimethylphenol	Mass fraction	50	80	mg/kg	0.5	0.5	%	2	95%	Yes	65.2	65.2	mg/kg	0.46	0.46	%		95%	Yes	SRM 1584
8392136	Other	multicomponent organic solution	2-chlorophenol	Mass fraction	60	100	mg/kg	2.2	2.2	%	2	95%	Yes	81.4	81.4	mg/kg	2.2	2.2	%		95%	Yes	SRM 1584
8392137	Other	multicomponent organic solution	2-nitrophenol	Mass fraction	20	120	mg/kg	2.5	3.5	%	2	95%	Yes	31.8	103.6	mg/kg	2.8	3.1	%		95%	Yes	SRM 1586 SRM 1584
8392138	Other	multicomponent organic solution	4,6-dinitro-o-cresol	Mass fraction	15	40	mg/kg	4	5	%	2	95%	Yes	25.4	25.4	mg/kg	4.3	4.3	%		95%	Yes	SRM 1584
8392139	Other	multicomponent organic solution	4-chloro-m-cresol	Mass fraction	20	50	mg/kg	1	2	%	2	95%	Yes	34.6	34.6	mg/kg	1.5	1.5	%		95%	Yes	SRM 1584
8392140	Other	multicomponent organic solution	4-nitrophenol	Mass fraction	15	40	mg/kg	3	4	%	2	95%	Yes	26.2	26.2	mg/kg	3.4	3.4	%		95%	Yes	SRM 1584
8392141	Other	multicomponent organic solution	pentachlorophenol	Mass fraction	1	100	mg/kg	5	7	%	2	95%	Yes	19.5	19.5	mg/kg	7.2	7.2	%		95%	Yes	SRM 1584
8392142	Other	multicomponent organic solution	phenol	Mass fraction	10	150	mg/kg	1	3	%	2	95%	Yes	37.5	117	mg/kg	1.1	2.9	%		95%	Yes	SRM 1586 SRM 1584
8392143	Other	multicomponent organic solution	2,4-dichlorophenol-d3	Mass fraction	60	100	mg/kg	2	2.5	%	2	95%	Yes	82.2	82.2	mg/kg	2.0	2.0	%		95%	Yes	SRM 1586
8392144	Other	multicomponent organic solution	2-nitrophenol-d4	Mass fraction	80	120	mg/kg	2	2.5	%	2	95%	Yes	102	102	mg/kg	2.3	2.3	%		95%	Yes	SRM 1586
8392145	Other	multicomponent organic solution	benzene-d6	Mass fraction	80	120	mg/kg	0.5	1	%	2	95%	Yes	99	99	mg/kg	0.51	0.51	%		95%	Yes	SRM 1586
8392147	Other	multicomponent organic solution	bis(2-ethylhexyl)phthalate-d4	Mass fraction	50	75	mg/kg	1	1.5	%	2	95%	Yes	60.4	60.4	mg/kg	1.2	1.2	%		95%	Yes	SRM 1586
8392148	Other	multicomponent organic solution	carbon tetrachloride-13C	Mass fraction	100	150	mg/kg	1.5	3.5	%	2	95%	Yes	124	124	mg/kg	1.7	1.7	%		95%	Yes	SRM 1586
8392149	Other	multicomponent organic solution	chlorobenzene-d5	Mass fraction	125	170	mg/kg	1	1.5	%	2	95%	Yes	144	144	mg/kg	0.9	0.9	%		95%	Yes	SRM 1586
8392150	Other	multicomponent organic solution	naphthalene-d8	Mass fraction	100	150	mg/kg	0.8	1	%	2	95%	Yes	127	127	mg/kg	0.79	0.79	%		95%	Yes	SRM 1586
8392151	Other	multicomponent organic solution	nitrobenzene-d5	Mass fraction	100	150	mg/kg	1	1.5	%	2	95%	Yes	135	135	mg/kg	1.0	1.0	%		95%	Yes	SRM 1586
8392152	Other	multicomponent organic solution	phenol-d5	Mass fraction	100	140	mg/kg	0.5	1	%	2	95%	Yes	116	116	mg/kg	0.52	0.52	%		95%	Yes	SRM 1586