



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: LABE01
Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645
Instrument ID: BNA_F Calibration Date(s): 07/24/2023 07/24/2023
Calibration Time(s): 13:46 17:44

LAB FILE ID:		RRF2.5 = BF134427.D			RRF005 = BF134428.D		RRF010 = BF134429.D	
		RRF020 = BF134430.D			RRF040 = BF134431.D		RRF050 = BF134432.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.153	1.231	1.311	1.266	1.166	1.211	5.5
Benzaldehyde			0.931	0.895	0.749	0.705	0.794	14.0
Phenol-d6		1.506	1.570	1.615	1.483	1.407	1.483	6.2
Phenol		1.606	1.569	1.663	1.568	1.457	1.543	5.7
bis(2-Chloroethyl)ether		1.187	1.110	1.091	1.067	1.005	1.077	6.1
2-Chlorophenol		1.265	1.281	1.316	1.252	1.162	1.226	6.0
2-Methylphenol		1.209	1.112	1.159	1.122	1.017	1.094	7.5
2,2-oxybis(1-Chloropropane)		1.635	1.692	1.667	1.590	1.514	1.586	5.8
Acetophenone		0.503	0.522	0.518	0.503	0.476	0.497	4.0
3+4-Methylphenols		1.477	1.518	1.508	1.423	1.294	1.400	7.8
n-Nitroso-di-n-propylamine	1.030	0.926	0.966	0.980	0.928	0.855	0.923	7.5
Nitrobenzene-d5		0.383	0.396	0.407	0.404	0.388	0.395	2.3
Hexachloroethane		0.544	0.559	0.561	0.518	0.488	0.521	6.8
Nitrobenzene		0.398	0.390	0.403	0.392	0.385	0.393	2.0
Isophorone		0.657	0.670	0.674	0.668	0.644	0.659	2.1
2-Nitrophenol		0.165	0.180	0.190	0.186	0.181	0.181	4.4
2,4-Dimethylphenol		0.281	0.293	0.298	0.288	0.277	0.285	2.7
bis(2-Chloroethoxy)methane		0.363	0.370	0.379	0.368	0.362	0.367	2.3
2,4-Dichlorophenol		0.284	0.293	0.291	0.292	0.277	0.285	2.6
Naphthalene		0.988	1.042	1.028	1.011	0.951	0.995	3.5
4-Chloroaniline		0.414	0.417	0.431	0.422	0.394	0.411	3.2
Hexachlorobutadiene		0.204	0.215	0.218	0.212	0.197	0.206	4.5
Caprolactam		0.080	0.092	0.086	0.091	0.086	0.087	4.5
4-Chloro-3-methylphenol		0.327	0.336	0.331	0.336	0.322	0.329	2.0
2-Methylnaphthalene		0.722	0.711	0.716	0.702	0.660	0.692	4.1
Hexachlorocyclopentadiene			0.060	0.111	0.151	0.182	0.152	38.1
2,4,6-Trichlorophenol		0.404	0.409	0.420	0.417	0.389	0.407	2.6
2-Fluorobiphenyl		1.576	1.594	1.604	1.555	1.427	1.523	5.3
2,4,5-Trichlorophenol		0.459	0.452	0.503	0.492	0.454	0.474	4.3
1,1-Biphenyl		1.667	1.679	1.735	1.681	1.559	1.648	3.8
2-Chloronaphthalene		1.231	1.248	1.258	1.234	1.144	1.215	3.5
2-Nitroaniline		0.408	0.418	0.441	0.461	0.430	0.438	4.7
Dimethylphthalate		1.433	1.488	1.541	1.523	1.429	1.483	3.0
Acenaphthylene		2.042	2.114	2.151	2.112	1.923	2.053	4.2
2,6-Dinitrotoluene		0.326	0.316	0.332	0.339	0.308	0.325	3.4
3-Nitroaniline		0.343	0.375	0.402	0.386	0.364	0.373	4.9

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Acenaphthene		1.250	1.200	1.264	1.249	1.146	1.213	3.7
2,4-Dinitrophenol			0.089	0.122	0.149	0.158	0.143	22.4
4-Nitrophenol			0.153	0.189	0.205	0.208	0.199	12.6
Dibenzofuran		1.892	1.872	1.997	1.910	1.769	1.867	4.5
2,4-Dinitrotoluene		0.419	0.422	0.451	0.461	0.423	0.437	4.1
Diethylphthalate		1.552	1.545	1.581	1.560	1.465	1.535	2.9
4-Chlorophenyl-phenylether		0.726	0.714	0.765	0.742	0.688	0.719	4.0
Fluorene		1.504	1.530	1.563	1.546	1.440	1.506	3.2
4-Nitroaniline		0.342	0.370	0.399	0.402	0.378	0.383	5.6
4,6-Dinitro-2-methylphenol			0.095	0.113	0.121	0.116	0.115	9.0
n-Nitrosodiphenylamine		0.650	0.657	0.662	0.653	0.605	0.636	4.0
2,4,6-Tribromophenol		0.274	0.274	0.300	0.293	0.277	0.284	3.8
4-Bromophenyl-phenylether		0.228	0.221	0.229	0.222	0.210	0.219	3.9
Hexachlorobenzene		0.248	0.259	0.258	0.250	0.237	0.247	4.0
Atrazine		0.190	0.190	0.187	0.186	0.167	0.177	7.8
Pentachlorophenol			0.090	0.096	0.108	0.103	0.104	8.9
Phenanthrene		1.030	1.104	1.101	1.069	1.006	1.045	4.5
Anthracene		1.044	1.134	1.119	1.111	1.047	1.079	4.1
Carbazole		1.002	1.050	1.057	1.031	0.989	1.016	3.3
Di-n-butylphthalate		1.180	1.197	1.205	1.197	1.140	1.166	3.6
Fluoranthene		1.267	1.261	1.256	1.229	1.176	1.218	4.1
Pyrene		1.521	1.515	1.603	1.594	1.606	1.590	3.4
Terphenyl-d14		1.100	1.119	1.166	1.147	1.144	1.146	2.4
Butylbenzylphthalate		0.604	0.602	0.646	0.653	0.652	0.637	3.9
3,3-Dichlorobenzidine		0.467	0.459	0.484	0.441	0.426	0.442	6.9
Benzo (a) anthracene		1.435	1.405	1.450	1.381	1.361	1.395	3.0
Chrysene		1.353	1.335	1.428	1.347	1.315	1.335	3.8
Bis (2-ethylhexyl) phthalate		0.778	0.736	0.800	0.788	0.793	0.774	3.5
Di-n-octyl phthalate		1.079	1.076	1.083	1.092	1.072	1.075	1.6
Benzo (b) fluoranthene		1.244	1.340	1.312	1.216	1.214	1.251	5.0
Benzo (k) fluoranthene		1.229	1.240	1.329	1.284	1.158	1.230	5.1
Benzo (a) pyrene		1.128	1.172	1.197	1.172	1.136	1.157	2.5
Indeno (1,2,3-cd) pyrene		1.101	1.114	1.222	1.371	1.370	1.307	12.4
Dibenzo (a,h) anthracene		0.909	0.869	0.992	1.100	1.109	1.055	12.8
Benzo (g,h,i) perylene		0.878	0.887	1.045	1.125	1.152	1.083	14.3
1,2,4,5-Tetrachlorobenzene		0.655	0.661	0.654	0.582	0.614	0.634	4.6

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
1,4-Dioxane		0.558	0.517	0.535	0.505	0.485	0.513	5.6
2,3,4,6-Tetrachlorophenol		0.378	0.349	0.356	0.374	0.353	0.364	3.3

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