



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_G Calibration Date(s): 07/28/2023 07/28/2023

Calibration Time(s): 09:21 14:09

LAB FILE ID:		RRF2.5 = BG058510.D			RRF005 = BG058511.D		RRF010 = BG058512.D	
		RRF020 = BG058513.D			RRF040 = BG058514.D		RRF050 = BG058515.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.394	1.389	1.419	1.318	1.230	1.309	7.5
Benzaldehyde			1.165	1.118	0.948	0.861	0.989	14.6
Phenol-d6		1.923	1.870	1.962	1.855	1.737	1.821	6.3
Phenol		1.838	1.857	1.912	1.818	1.691	1.779	6.0
bis(2-Chloroethyl)ether		1.536	1.455	1.465	1.387	1.344	1.402	6.5
2-Chlorophenol		1.347	1.329	1.393	1.290	1.220	1.284	6.3
2-Methylphenol		1.349	1.379	1.373	1.313	1.238	1.300	5.6
2,2-oxybis(1-Chloropropane)		2.403	2.394	2.421	2.272	2.178	2.278	5.8
Acetophenone		0.540	0.539	0.577	0.548	0.517	0.536	4.5
3+4-Methylphenols		1.733	1.744	1.898	1.830	1.721	1.759	4.8
n-Nitroso-di-n-propylamine	1.237	1.220	1.214	1.251	1.181	1.113	1.176	5.8
Nitrobenzene-d5		0.402	0.406	0.434	0.416	0.393	0.407	3.7
Hexachloroethane		0.544	0.523	0.528	0.500	0.474	0.500	6.7
Nitrobenzene		0.395	0.427	0.440	0.423	0.401	0.414	4.2
Isophorone		0.847	0.868	0.883	0.851	0.808	0.841	3.6
2-Nitrophenol		0.163	0.172	0.185	0.189	0.181	0.180	5.3
2,4-Dimethylphenol		0.289	0.295	0.317	0.308	0.293	0.299	3.4
bis(2-Chloroethoxy)methane		0.433	0.467	0.485	0.475	0.446	0.458	4.3
2,4-Dichlorophenol		0.294	0.305	0.326	0.323	0.302	0.310	3.8
Naphthalene		1.104	1.108	1.122	1.062	0.997	1.054	5.9
4-Chloroaniline		0.395	0.433	0.464	0.476	0.441	0.445	6.0
Hexachlorobutadiene		0.238	0.229	0.246	0.232	0.219	0.230	4.1
Caprolactam		0.110	0.121	0.120	0.119	0.109	0.115	4.5
4-Chloro-3-methylphenol		0.368	0.388	0.406	0.397	0.375	0.384	3.7
2-Methylnaphthalene		0.793	0.777	0.796	0.766	0.717	0.754	5.2
Hexachlorocyclopentadiene			0.135	0.203	0.249	0.264	0.236	24.5
2,4,6-Trichlorophenol		0.411	0.414	0.442	0.435	0.412	0.422	3.3
2-Fluorobiphenyl		1.469	1.429	1.449	1.313	1.240	1.335	8.8
2,4,5-Trichlorophenol		0.506	0.521	0.493	0.499	0.478	0.497	3.1
1,1-Biphenyl		1.422	1.425	1.455	1.370	1.328	1.374	4.9
2-Chloronaphthalene		1.103	1.102	1.138	1.067	1.026	1.071	4.5
2-Nitroaniline		0.364	0.385	0.432	0.427	0.412	0.409	6.2
Dimethylphthalate		1.585	1.583	1.595	1.501	1.421	1.502	6.0
Acenaphthylene		1.890	1.876	1.919	1.802	1.697	1.793	6.2
2,6-Dinitrotoluene		0.321	0.338	0.345	0.335	0.319	0.330	3.2
3-Nitroaniline		0.281	0.315	0.351	0.347	0.333	0.330	7.6

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		1.096	1.077	1.108	1.030	0.981	1.036	5.9
2,4-Dinitrophenol			0.076	0.120	0.164	0.166	0.150	29.1
4-Nitrophenol			0.161	0.203	0.245	0.228	0.222	15.5
Dibenzofuran		1.911	1.931	1.899	1.773	1.661	1.780	7.8
2,4-Dinitrotoluene		0.415	0.466	0.492	0.473	0.448	0.457	5.5
Diethylphthalate		1.626	1.678	1.634	1.527	1.422	1.530	7.9
4-Chlorophenyl-phenylether		0.850	0.834	0.833	0.782	0.744	0.788	6.6
Fluorene		1.561	1.548	1.529	1.397	1.304	1.414	9.4
4-Nitroaniline		0.243	0.310	0.329	0.338	0.312	0.312	10.4
4,6-Dinitro-2-methylphenol			0.083	0.103	0.118	0.115	0.110	13.5
n-Nitrosodiphenylamine		0.533	0.535	0.564	0.522	0.502	0.521	5.2
2,4,6-Tribromophenol		0.326	0.344	0.346	0.334	0.313	0.328	4.5
4-Bromophenyl-phenylether		0.230	0.230	0.236	0.227	0.220	0.227	2.8
Hexachlorobenzene		0.251	0.245	0.253	0.238	0.232	0.240	4.1
Atrazine		0.191	0.197	0.195	0.176	0.161	0.176	10.7
Pentachlorophenol			0.110	0.139	0.155	0.152	0.145	13.1
Phenanthrene		1.024	1.019	1.023	0.943	0.883	0.948	8.0
Anthracene		1.041	1.042	1.051	0.975	0.911	0.973	7.7
Carbazole		0.846	0.913	0.928	0.885	0.812	0.858	6.3
Di-n-butylphthalate		1.080	1.164	1.168	1.098	1.013	1.075	7.2
Fluoranthene		1.202	1.245	1.230	1.156	1.048	1.139	8.3
Pyrene		1.438	1.453	1.447	1.362	1.287	1.361	6.6
Terphenyl-d14		1.178	1.169	1.153	1.051	0.985	1.064	9.9
Butylbenzylphthalate		0.554	0.568	0.585	0.571	0.550	0.559	3.4
3,3-Dichlorobenzidine		0.440	0.478	0.490	0.481	0.453	0.465	4.2
Benzo (a) anthracene		1.430	1.443	1.436	1.386	1.311	1.376	4.9
Chrysene		1.361	1.397	1.393	1.325	1.258	1.320	5.3
Bis (2-ethylhexyl) phthalate		0.834	0.849	0.866	0.833	0.783	0.817	5.1
Di-n-octyl phthalate		1.450	1.466	1.501	1.467	1.393	1.436	3.9
Benzo (b) fluoranthene		1.109	1.117	1.149	1.117	1.041	1.085	5.0
Benzo (k) fluoranthene		1.133	1.139	1.148	1.103	1.023	1.090	5.2
Benzo (a) pyrene		1.079	1.086	1.113	1.088	1.021	1.065	3.7
Indeno (1,2,3-cd) pyrene		1.307	1.349	1.386	1.367	1.288	1.331	3.2
Dibenzo (a,h) anthracene		1.077	1.127	1.148	1.129	1.059	1.100	3.5
Benzo (g,h,i) perylene		1.089	1.122	1.151	1.128	1.060	1.103	3.2
1,2,4,5-Tetrachlorobenzene		0.634	0.623	0.642	0.613	0.594	0.614	3.7

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
1,4-Dioxane		0.672	0.707	0.678	0.630	0.591	0.634	8.5
2,3,4,6-Tetrachlorophenol		0.431	0.438	0.432	0.430	0.408	0.424	2.8

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