



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): 06/26/2023 06/27/2023

Calibration Time(s): 15:19 03:07

LAB FILE ID:		RRF2.5 = BF133953.D		RRF005 = BF133954.D		RRF010 = BF133955.D		
		RRF020 = BF133956.D		RRF040 = BF133957.D		RRF050 = BF133958.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.333	1.301	1.332	1.173	1.076	1.196	10.5
Benzaldehyde		1.029	1.058	0.971	0.808	0.730	0.886	17.2
Phenol-d6		1.666	1.625	1.588	1.420	1.341	1.470	10.5
Phenol		1.770	1.703	1.706	1.507	1.412	1.546	11.7
bis(2-Chloroethyl)ether		1.269	1.206	1.224	1.120	1.060	1.138	8.5
2-Chlorophenol		1.370	1.327	1.334	1.184	1.124	1.214	10.7
2-Methylphenol		1.172	1.170	1.175	1.078	1.025	1.087	7.9
2,2-oxybis(1-Chloropropane)		2.231	2.170	2.160	1.981	1.913	2.014	8.9
Acetophenone		0.523	0.509	0.489	0.439	0.408	0.455	11.4
3+4-Methylphenols		1.527	1.485	1.480	1.290	1.177	1.319	13.6
n-Nitroso-di-n-propylamine	1.083	1.033	0.997	1.007	0.887	0.815	0.932	11.9
Nitrobenzene-d5		0.381	0.398	0.393	0.371	0.347	0.371	6.0
Hexachloroethane		0.532	0.519	0.520	0.482	0.449	0.485	8.3
Nitrobenzene		0.376	0.400	0.401	0.379	0.352	0.375	5.9
Isophorone		0.712	0.715	0.701	0.661	0.633	0.674	5.3
2-Nitrophenol		0.173	0.179	0.193	0.185	0.176	0.180	4.1
2,4-Dimethylphenol		0.301	0.303	0.305	0.285	0.265	0.285	6.7
bis(2-Chloroethoxy)methane		0.418	0.422	0.414	0.391	0.363	0.390	7.4
2,4-Dichlorophenol		0.306	0.292	0.304	0.284	0.263	0.282	7.1
Naphthalene		1.073	1.058	1.041	0.951	0.881	0.966	9.6
4-Chloroaniline		0.437	0.441	0.443	0.414	0.389	0.413	6.9
Hexachlorobutadiene		0.195	0.198	0.195	0.183	0.172	0.184	7.1
Caprolactam		0.094	0.096	0.097	0.094	0.088	0.093	3.6
4-Chloro-3-methylphenol		0.337	0.342	0.333	0.315	0.294	0.317	6.6
2-Methylnaphthalene		0.796	0.754	0.732	0.666	0.609	0.683	11.5
Hexachlorocyclopentadiene			0.214	0.264	0.295	0.297	0.281	13.0
2,4,6-Trichlorophenol		0.412	0.433	0.423	0.404	0.391	0.403	5.5
2-Fluorobiphenyl		1.574	1.574	1.501	1.328	1.243	1.376	12.6
2,4,5-Trichlorophenol		0.494	0.503	0.500	0.473	0.454	0.474	5.6
1,1-Biphenyl		1.764	1.767	1.710	1.576	1.508	1.604	9.2
2-Chloronaphthalene		1.283	1.285	1.236	1.154	1.106	1.174	8.3
2-Nitroaniline		0.407	0.444	0.452	0.431	0.422	0.428	4.0
Dimethylphthalate		1.544	1.581	1.522	1.425	1.374	1.452	6.9
Acenaphthylene		2.169	2.206	2.171	1.979	1.901	2.005	9.3
2,6-Dinitrotoluene		0.316	0.323	0.329	0.318	0.303	0.313	4.7
3-Nitroaniline		0.377	0.389	0.404	0.375	0.356	0.375	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		1.242	1.279	1.252	1.143	1.089	1.164	8.3
2,4-Dinitrophenol			0.122	0.147	0.168	0.169	0.162	15.1
4-Nitrophenol		0.236	0.262	0.280	0.269	0.265	0.262	5.4
Dibenzofuran		2.044	2.015	1.960	1.802	1.692	1.818	10.8
2,4-Dinitrotoluene		0.417	0.439	0.450	0.417	0.396	0.413	6.8
Diethylphthalate		1.631	1.692	1.612	1.489	1.415	1.513	9.1
4-Chlorophenyl-phenylether		0.773	0.767	0.733	0.667	0.623	0.682	11.3
Fluorene		1.585	1.611	1.541	1.373	1.289	1.415	11.7
4-Nitroaniline		0.380	0.396	0.402	0.377	0.370	0.378	5.0
4,6-Dinitro-2-methylphenol		0.084	0.102	0.113	0.117	0.112	0.109	11.2
n-Nitrosodiphenylamine		0.718	0.680	0.685	0.628	0.586	0.639	8.8
2,4,6-Tribromophenol		0.259	0.274	0.270	0.248	0.235	0.251	7.2
4-Bromophenyl-phenylether		0.227	0.222	0.228	0.213	0.199	0.213	6.3
Hexachlorobenzene		0.241	0.236	0.242	0.221	0.211	0.226	6.3
Atrazine		0.194	0.201	0.195	0.167	0.161	0.177	10.9
Pentachlorophenol		0.119	0.135	0.144	0.141	0.134	0.135	5.8
Phenanthrene		1.119	1.105	1.087	0.981	0.929	1.007	9.6
Anthracene		1.184	1.145	1.149	1.015	0.951	1.047	10.6
Carbazole		1.087	1.066	1.056	0.950	0.814	0.959	11.8
Di-n-butylphthalate		1.265	1.264	1.254	1.141	0.982	1.140	11.0
Fluoranthene		1.284	1.246	1.207	1.054	0.919	1.088	14.5
Pyrene		1.804	1.790	1.865	1.963	1.871	1.861	3.7
Terphenyl-d14		1.283	1.241	1.284	1.267	1.214	1.243	3.6
Butylbenzylphthalate		0.668	0.702	0.723	0.721	0.685	0.698	3.6
3,3-Dichlorobenzidine		0.487	0.486	0.465	0.430	0.412	0.439	9.1
Benzo (a) anthracene		1.500	1.462	1.433	1.379	1.312	1.387	6.0
Chrysene		1.472	1.404	1.400	1.329	1.260	1.343	6.4
Bis (2-ethylhexyl) phthalate		0.753	0.832	0.832	0.821	0.785	0.802	4.0
Di-n-octyl phthalate		1.061	1.124	1.137	1.199	1.189	1.179	6.6
Benzo (b) fluoranthene		1.188	1.314	1.268	1.181	1.070	1.176	7.7
Benzo (k) fluoranthene		1.276	1.365	1.306	1.161	1.093	1.197	10.2
Benzo (a) pyrene		1.167	1.199	1.199	1.137	1.072	1.137	4.9
Indeno (1,2,3-cd) pyrene		1.095	1.182	1.435	1.520	1.545	1.388	12.7
Dibenzo (a,h) anthracene		0.911	0.995	1.181	1.240	1.255	1.134	11.5
Benzo (g,h,i) perylene		0.965	0.979	1.212	1.269	1.296	1.169	11.8
1,2,4,5-Tetrachlorobenzene		0.626	0.639	0.634	0.585	0.562	0.593	7.1

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
1,4-Dioxane		0.509	0.533	0.541	0.491	0.448	0.493	7.6
2,3,4,6-Tetrachlorophenol		0.392	0.401	0.390	0.368	0.357	0.374	5.8

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