



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_M Calibration Date(s): 07/28/2023 07/28/2023
Calibration Time(s): 10:14 14:38

LAB FILE ID:		RRF2.5 = BM041158.D			RRF005 = BM041159.D		RRF010 = BM041160.D	
		RRF020 = BM041161.D			RRF040 = BM041162.D		RRF050 = BM041163.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.294	1.392	1.395	1.361	1.305	1.338	3.6
Benzaldehyde			1.086	1.006	0.883	0.795	0.915	13.9
Phenol-d6		1.706	1.763	1.842	1.752	1.678	1.735	3.6
Phenol		1.664	1.717	1.775	1.684	1.612	1.675	3.8
bis(2-Chloroethyl)ether		1.354	1.416	1.443	1.366	1.283	1.356	4.6
2-Chlorophenol		1.342	1.345	1.385	1.313	1.247	1.306	4.4
2-Methylphenol		1.152	1.136	1.217	1.165	1.103	1.145	3.8
2,2-oxybis(1-Chloropropane)		1.909	1.876	1.941	1.807	1.699	1.807	6.1
Acetophenone		0.511	0.513	0.545	0.539	0.521	0.530	2.8
3+4-Methylphenols		1.453	1.524	1.643	1.562	1.489	1.530	4.4
n-Nitroso-di-n-propylamine	1.022	1.024	1.037	1.140	1.082	1.029	1.054	4.5
Nitrobenzene-d5		0.395	0.420	0.442	0.442	0.429	0.430	4.2
Hexachloroethane		0.538	0.531	0.560	0.544	0.514	0.532	3.5
Nitrobenzene		0.409	0.430	0.449	0.446	0.428	0.435	3.3
Isophorone		0.653	0.682	0.752	0.752	0.731	0.730	6.4
2-Nitrophenol		0.139	0.148	0.169	0.180	0.177	0.170	11.4
2,4-Dimethylphenol		0.271	0.290	0.309	0.309	0.298	0.299	4.8
bis(2-Chloroethoxy)methane		0.433	0.448	0.474	0.469	0.447	0.457	3.4
2,4-Dichlorophenol		0.262	0.285	0.312	0.313	0.303	0.302	7.0
Naphthalene		1.089	1.087	1.118	1.089	1.048	1.085	2.1
4-Chloroaniline		0.389	0.418	0.443	0.446	0.431	0.434	5.7
Hexachlorobutadiene		0.196	0.192	0.204	0.204	0.197	0.200	2.6
Caprolactam			0.071	0.082	0.089	0.088	0.087	11.3
4-Chloro-3-methylphenol		0.287	0.297	0.325	0.326	0.318	0.318	6.1
2-Methylnaphthalene		0.707	0.716	0.751	0.737	0.712	0.732	2.9
Hexachlorocyclopentadiene			0.266	0.320	0.361	0.357	0.344	13.1
2,4,6-Trichlorophenol		0.353	0.390	0.425	0.434	0.421	0.416	8.1
2-Fluorobiphenyl		1.537	1.543	1.618	1.622	1.552	1.583	2.4
2,4,5-Trichlorophenol		0.414	0.455	0.490	0.497	0.489	0.482	7.4
1,1-Biphenyl		1.568	1.603	1.667	1.648	1.585	1.621	2.3
2-Chloronaphthalene		1.172	1.200	1.240	1.230	1.182	1.211	2.2
2-Nitroaniline		0.296	0.330	0.387	0.415	0.406	0.386	13.8
Dimethylphthalate		1.429	1.464	1.532	1.524	1.477	1.504	3.5
Acenaphthylene		1.783	1.890	2.017	2.018	1.930	1.954	4.7
2,6-Dinitrotoluene		0.261	0.289	0.318	0.325	0.317	0.312	8.9
3-Nitroaniline		0.231	0.276	0.332	0.354	0.346	0.326	16.4

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		1.139	1.153	1.204	1.193	1.153	1.177	2.4
2,4-Dinitrophenol			0.118	0.163	0.187	0.189	0.180	19.8
4-Nitrophenol			0.191	0.246	0.269	0.266	0.260	14.6
Dibenzofuran		1.880	1.907	1.969	1.936	1.865	1.921	2.2
2,4-Dinitrotoluene		0.283	0.341	0.408	0.430	0.427	0.402	16.6
Diethylphthalate		1.349	1.387	1.463	1.480	1.444	1.455	5.1
4-Chlorophenyl-phenylether		0.694	0.721	0.766	0.775	0.753	0.759	5.5
Fluorene		1.449	1.458	1.548	1.533	1.487	1.515	3.4
4-Nitroaniline		0.166	0.215	0.273	0.313	0.322	0.284	24.8
4,6-Dinitro-2-methylphenol			0.089	0.114	0.127	0.126	0.121	14.7
n-Nitrosodiphenylamine		0.578	0.606	0.636	0.644	0.614	0.622	3.9
2,4,6-Tribromophenol		0.241	0.258	0.285	0.292	0.286	0.283	9.0
4-Bromophenyl-phenylether		0.200	0.209	0.222	0.225	0.220	0.219	5.1
Hexachlorobenzene		0.234	0.238	0.246	0.247	0.239	0.244	2.8
Atrazine		0.151	0.164	0.171	0.169	0.164	0.163	4.1
Pentachlorophenol		0.132	0.150	0.168	0.180	0.176	0.169	12.5
Phenanthrene		1.081	1.102	1.122	1.126	1.083	1.111	2.1
Anthracene		0.981	1.047	1.115	1.142	1.092	1.099	6.0
Carbazole		0.870	0.952	1.005	1.039	1.001	0.995	6.5
Di-n-butylphthalate		0.892	0.992	1.099	1.196	1.180	1.124	12.5
Fluoranthene		1.111	1.191	1.239	1.285	1.253	1.248	6.3
Pyrene		1.339	1.317	1.445	1.432	1.388	1.399	3.8
Terphenyl-d14		1.023	1.028	1.125	1.146	1.120	1.106	5.4
Butylbenzylphthalate		0.385	0.432	0.504	0.550	0.550	0.511	14.8
3,3-Dichlorobenzidine		0.350	0.407	0.448	0.476	0.458	0.442	10.9
Benzo (a) anthracene		1.253	1.301	1.389	1.390	1.351	1.356	4.3
Chrysene		1.269	1.286	1.339	1.322	1.282	1.311	2.6
Bis (2-ethylhexyl) phthalate		0.511	0.613	0.712	0.794	0.798	0.730	17.5
Di-n-octyl phthalate			1.040	1.185	1.335	1.340	1.291	12.0
Benzo (b) fluoranthene		1.097	1.138	1.180	1.211	1.192	1.188	4.8
Benzo (k) fluoranthene		1.096	1.139	1.243	1.291	1.211	1.215	5.9
Benzo (a) pyrene		1.014	1.059	1.149	1.189	1.164	1.142	6.7
Indeno (1,2,3-cd) pyrene		1.322	1.387	1.477	1.519	1.482	1.470	5.9
Dibenzo (a,h) anthracene		1.081	1.153	1.221	1.266	1.245	1.226	6.9
Benzo (g,h,i) perylene		1.126	1.161	1.219	1.234	1.187	1.200	3.7
1,2,4,5-Tetrachlorobenzene		0.611	0.637	0.663	0.661	0.644	0.649	3.2

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
1,4-Dioxane		0.598	0.607	0.601	0.572	0.543	0.572	5.5
2,3,4,6-Tetrachlorophenol		0.355	0.367	0.398	0.397	0.390	0.390	5.6

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