



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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: REMI02
Lab Code: CHEM Case No.: O2505 SAS No.: O2505 SDG No.: O2505
Instrument ID: BNA_F Calibration Date(s): 04/21/2023 04/21/2023
Calibration Time(s): 13:11 16:50

LAB FILE ID:		RRF2.5 = BF132965.D		RRF005 = BF132966.D		RRF010 = BF132967.D		
		RRF020 = BF132968.D		RRF040 = BF132969.D		RRF050 = BF132970.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.587	1.456	1.437	1.322	1.200	1.324	13.5
Benzaldehyde			1.115	1.002	0.762	0.683	0.791	28.0
Phenol-d6		1.918	1.800	1.795	1.629	1.504	1.643	12.2
Phenol		2.117	1.981	1.990	1.822	1.664	1.813	12.7
bis(2-Chloroethyl)ether		1.563	1.433	1.459	1.366	1.265	1.360	9.8
2-Chlorophenol		1.575	1.485	1.479	1.354	1.225	1.344	13.3
2-Methylphenol		1.399	1.313	1.314	1.238	1.135	1.231	9.6
2,2-oxybis(1-Chloropropane)		2.695	2.537	2.568	2.379	2.181	2.363	10.6
Acetophenone		0.563	0.525	0.502	0.454	0.411	0.463	14.7
3+4-Methylphenols		1.803	1.697	1.649	1.438	1.266	1.450	18.9
n-Nitroso-di-n-propylamine	1.129	1.150	1.087	1.086	1.001	0.913	1.023	10.1
Nitrobenzene-d5		0.407	0.381	0.389	0.379	0.350	0.371	6.9
Hexachloroethane		0.562	0.541	0.544	0.500	0.465	0.498	10.8
Nitrobenzene		0.411	0.391	0.396	0.382	0.359	0.375	7.3
Isophorone		0.754	0.706	0.717	0.710	0.665	0.704	4.1
2-Nitrophenol		0.172	0.172	0.187	0.192	0.181	0.181	4.2
2,4-Dimethylphenol		0.344	0.320	0.323	0.319	0.289	0.311	7.0
bis(2-Chloroethoxy)methane		0.470	0.437	0.434	0.420	0.391	0.416	8.3
2,4-Dichlorophenol		0.306	0.291	0.299	0.292	0.268	0.283	6.8
Naphthalene		1.196	1.094	1.079	1.011	0.898	1.000	13.4
4-Chloroaniline		0.456	0.442	0.444	0.402	0.367	0.404	11.1
Hexachlorobutadiene		0.182	0.174	0.172	0.164	0.150	0.162	9.1
Caprolactam		0.096	0.093	0.097	0.100	0.092	0.095	3.2
4-Chloro-3-methylphenol		0.330	0.317	0.316	0.312	0.284	0.305	6.3
2-Methylnaphthalene		0.823	0.760	0.739	0.689	0.614	0.684	14.3
Hexachlorocyclopentadiene		0.286	0.296	0.334	0.334	0.313	0.314	5.9
2,4,6-Trichlorophenol		0.396	0.372	0.396	0.381	0.353	0.372	5.5
2-Fluorobiphenyl			1.476	1.430	1.210	1.081	1.195	18.4
2,4,5-Trichlorophenol		0.464	0.437	0.452	0.444	0.411	0.430	6.3
1,1-Biphenyl		1.887	1.771	1.752	1.598	1.440	1.586	14.5
2-Chloronaphthalene		1.344	1.228	1.260	1.168	1.074	1.161	10.9
2-Nitroaniline		0.373	0.379	0.407	0.402	0.372	0.384	4.0
Dimethylphthalate		1.577	1.470	1.496	1.409	1.289	1.395	9.2
Acenaphthylene		2.146	2.002	2.049	1.893	1.709	1.855	12.5
2,6-Dinitrotoluene		0.320	0.312	0.332	0.321	0.304	0.314	3.9
3-Nitroaniline		0.372	0.372	0.394	0.391	0.365	0.373	4.2

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		1.448	1.334	1.352	1.258	1.138	1.242	11.9
2,4-Dinitrophenol		0.116	0.125	0.157	0.175	0.172	0.158	16.9
4-Nitrophenol		0.282	0.281	0.303	0.309	0.286	0.289	4.1
Dibenzofuran		2.046	1.864	1.856	1.699	1.535	1.695	14.4
2,4-Dinitrotoluene		0.408	0.398	0.428	0.424	0.389	0.400	5.8
Diethylphthalate		1.503	1.395	1.422	1.334	1.224	1.317	10.2
4-Chlorophenyl-phenylether		0.744	0.689	0.688	0.596	0.535	0.605	17.3
Fluorene		1.579	1.434	1.383	1.209	1.094	1.241	18.6
4-Nitroaniline		0.351	0.350	0.377	0.347	0.322	0.343	5.9
4,6-Dinitro-2-methylphenol		0.094	0.105	0.125	0.134	0.128	0.121	12.8
n-Nitrosodiphenylamine		0.746	0.703	0.704	0.645	0.598	0.649	11.0
2,4,6-Tribromophenol		0.211	0.203	0.214	0.208	0.191	0.201	5.4
4-Bromophenyl-phenylether		0.237	0.226	0.229	0.219	0.205	0.217	7.0
Hexachlorobenzene		0.236	0.231	0.236	0.225	0.210	0.222	6.0
Atrazine		0.203	0.199	0.197	0.194	0.174	0.187	8.0
Pentachlorophenol		0.150	0.154	0.164	0.170	0.156	0.158	4.4
Phenanthrene		1.314	1.187	1.153	1.062	0.972	1.075	14.3
Anthracene		1.314	1.214	1.194	1.099	0.992	1.100	13.6
Carbazole		1.120	1.068	1.044	0.991	0.896	0.980	10.9
Di-n-butylphthalate		1.186	1.160	1.191	1.152	1.057	1.109	7.7
Fluoranthene		1.251	1.164	1.164	1.094	0.992	1.079	11.5
Pyrene		1.801	1.685	1.720	1.762	1.659	1.714	3.2
Terphenyl-d14		1.290	1.208	1.208	1.173	1.078	1.160	7.4
Butylbenzylphthalate		0.487	0.516	0.592	0.665	0.639	0.607	12.9
3,3-Dichlorobenzidine		0.375	0.382	0.423	0.411	0.374	0.380	9.2
Benzo (a) anthracene		1.506	1.401	1.466	1.417	1.298	1.375	7.2
Chrysene		1.501	1.402	1.426	1.413	1.302	1.375	6.1
Bis (2-ethylhexyl) phthalate		0.727	0.743	0.806	0.817	0.759	0.762	5.1
Di-n-octyl phthalate		1.065	1.096	1.296	1.351	1.273	1.242	9.1
Benzo (b) fluoranthene		1.321	1.257	1.295	1.334	1.247	1.272	3.5
Benzo (k) fluoranthene		1.317	1.332	1.424	1.289	1.177	1.261	9.2
Benzo (a) pyrene		1.181	1.145	1.203	1.202	1.127	1.158	3.4
Indeno (1,2,3-cd) pyrene		1.036	0.939	1.052	1.207	1.180	1.138	11.4
Dibenzo (a,h) anthracene		0.856	0.786	0.885	1.022	0.980	0.949	11.3
Benzo (g,h,i) perylene		0.827	0.732	0.853	1.005	0.989	0.937	14.3
1,2,4,5-Tetrachlorobenzene		0.611	0.578	0.583	0.541	0.495	0.538	10.4

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
1,4-Dioxane		0.714	0.644	0.646	0.612	0.569	0.614	9.7
2,3,4,6-Tetrachlorophenol		0.369	0.342	0.356	0.338	0.316	0.333	7.8

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