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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02
Lab Code: CHEM Case No.: Q1729 SAS No.: Q1729 SDG No.: Q1729
Instrument ID: BNA_N Calibration Date(s): 04/15/2025 04/15/2025
Calibration Time(s): 10:59 14:15

LAB FILE ID:		RRFAL1 = BN036911.D			RRFAL2 = BN036912.D		RRFAL3 = BN036913.D	
		RRFAL4 = BN036914.D			RRFAL5 = BN036915.D		RRFAL6 = BN036916.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane	0.578	0.592	0.584	0.546	0.519		0.564	5.4
Benzaldehyde		1.157	1.185	1.030	0.637	0.434	0.889	37.8
Hexachloroethane	0.623	0.657	0.669	0.682	0.637		0.654	3.6
Nitrobenzene	0.440	0.481	0.499	0.483	0.474		0.475	4.5
Isophorone	0.737	0.805	0.881	0.857	0.842		0.824	6.8
2-Nitrophenol	0.150	0.171	0.189	0.190	0.193		0.178	10.2
2,4-Dimethylphenol	0.369	0.388	0.413	0.402	0.403		0.395	4.3
Bis(2-Chloroethoxy)methane	0.437	0.476	0.494	0.483	0.475		0.473	4.6
2,4-Dichlorophenol	0.281	0.303	0.319	0.309	0.317		0.306	4.9
Naphthalene	1.019	1.053	1.089	1.072	1.042		1.055	2.6
4-Chloroaniline		0.417	0.443	0.425	0.423	0.426	0.427	2.3
Hexachlorobutadiene	0.213	0.201	0.214	0.206	0.202		0.207	2.7
Phenol		1.780	1.898	1.916	1.864	1.908	1.873	3.0
Caprolactam		0.095	0.104	0.105	0.105	0.107	0.103	4.5
4-Chloro-3-methylphenol	0.327	0.373	0.401	0.391	0.384		0.375	7.6
2-Methylnaphthalene	0.719	0.737	0.775	0.749	0.735		0.743	2.8
Hexachlorocyclopentadiene		0.310	0.334	0.357	0.354	0.372	0.345	7.0
2,4,6-Trichlorophenol	0.290	0.363	0.386	0.396	0.387		0.364	11.8
2,4,5-Trichlorophenol	0.330	0.391	0.419	0.421	0.423		0.397	9.9
1,1-Biphenyl	1.357	1.529	1.502	1.491	1.426		1.461	4.7
2-Chloronaphthalene	1.021	1.144	1.163	1.141	1.107		1.115	5.1
2-Nitroaniline	0.369	0.459	0.499	0.507	0.502		0.467	12.4
Bis(2-Chloroethyl)ether		1.434	1.567	1.540	1.448	1.443	1.486	4.2
Dimethylphthalate	1.368	1.543	1.510	1.453	1.431		1.461	4.7
2,6-Dinitrotoluene	0.218	0.275	0.299	0.313	0.312		0.283	14.0
Acenaphthylene	1.540	1.763	1.798	1.767	1.734		1.720	6.0
3-Nitroaniline		0.282	0.316	0.304	0.271	0.257	0.286	8.4
Acenaphthene	1.184	1.307	1.323	1.278	1.243		1.267	4.4
2,4-Dinitrophenol		0.140	0.173	0.194	0.203	0.225	0.187	17.2
4-Nitrophenol		0.327	0.336	0.319	0.291	0.296	0.314	6.3
Dibenzofuran	1.704	1.853	1.819	1.728	1.692		1.759	4.1
2,4-Dinitrotoluene	0.342	0.429	0.453	0.471	0.445		0.428	11.8
Diethylphthalate	1.464	1.631	1.640	1.599	1.508		1.568	5.0
2-Chlorophenol	1.229	1.321	1.407	1.405	1.369		1.346	5.5

All other compounds must meet a minimum RRF of 0.010.

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COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Fluorene	1.364	1.455	1.513	1.441	1.414		1.437	3.8
4-Chlorophenyl-phenylether	0.669	0.736	0.704	0.687	0.671		0.694	4.0
4-Nitroaniline		0.304	0.324	0.292	0.232	0.225	0.275	16.1
4,6-Dinitro-2-methylphenol		0.123	0.141	0.142	0.148	0.157	0.142	8.9
N-Nitrosodiphenylamine	0.554	0.606	0.625	0.626	0.621		0.606	5.0
1,2,4,5-Tetrachlorobenzene	0.539	0.567	0.583	0.590	0.572		0.571	3.4
4-Bromophenyl-phenylether	0.174	0.193	0.208	0.199	0.202		0.195	6.7
Hexachlorobenzene	0.192	0.203	0.217	0.216	0.215		0.209	5.4
Atrazine		0.220	0.240	0.229	0.224	0.232	0.229	3.4
Pentachlorophenol		0.130	0.149	0.149	0.153	0.168	0.150	9.0
2-Methylphenol		1.249	1.382	1.411	1.358	1.374	1.355	4.6
Phenanthrene	1.070	1.123	1.189	1.113	1.115		1.122	3.8
Anthracene	1.065	1.147	1.191	1.149	1.133		1.137	4.0
Carbazole		1.042	1.090	1.041	0.982	1.022	1.036	3.8
Di-n-butylphthalate	1.148	1.332	1.398	1.363	1.299		1.308	7.4
Fluoranthene	1.182	1.264	1.404	1.525	1.587		1.393	12.2
Pyrene	1.298	1.366	1.534	1.607	1.665		1.494	10.5
Butylbenzylphthalate	0.472	0.529	0.629	0.663	0.670		0.593	14.8
3,3-Dichlorobenzidine		0.344	0.380	0.367	0.347	0.340	0.356	4.8
2,2-oxybis(1-Chloropropane)		2.860	3.102	3.055	2.835	2.778	2.926	4.9
Benzo(a)anthracene	1.267	1.340	1.410	1.370	1.352		1.348	3.9
Chrysene	1.214	1.262	1.337	1.263	1.270		1.269	3.5
Bis(2-ethylhexyl)phthalate	0.706	0.807	0.894	0.904	0.929		0.848	10.8
Di-n-octyl phthalate		1.178	1.403	1.605	1.648	1.835	1.534	16.4
Benzo(b)fluoranthene	1.078	1.244	1.327	1.316	1.298		1.252	8.2
Benzo(k)fluoranthene	1.109	1.192	1.335	1.364	1.305		1.261	8.5
Benzo(a)pyrene	0.973	1.104	1.190	1.200	1.190		1.131	8.5
Indeno(1,2,3-cd)pyrene	1.172	1.267	1.219	1.291	1.372		1.264	6.0
Dibenzo(a,h)anthracene	0.958	1.023	0.991	1.058	1.113		1.029	5.8
Benzo(g,h,i)perylene	0.919	0.962	0.900	0.974	1.063		0.964	6.6
Acetophenone		2.424	2.475	2.456	2.307	2.271	2.387	3.8
2,3,4,6-Tetrachlorophenol	0.308	0.332	0.339	0.359	0.345		0.337	5.6
1,4-Dioxane-d8	0.460	0.527	0.539	0.494	0.466		0.497	7.1
Pyridine-d5		1.468	1.547	1.568	1.473	1.495	1.510	3.0
Phenol-d5		1.600	1.782	1.819	1.778	1.810	1.758	5.1

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COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Bis-(2-Chloroethyl) ether-d8		1.248	1.339	1.346	1.258	1.230	1.284	4.2
2-Chlorophenol-d4	1.105	1.205	1.332	1.379	1.316		1.267	8.8
4-Methylphenol-d8		1.314	1.487	1.498	1.439	1.458	1.439	5.1
Nitrobenzene-d5	0.139	0.150	0.159	0.162	0.161		0.154	6.2
2-Nitrophenol-d4	0.132	0.152	0.169	0.176	0.181		0.162	12.3
2,4-Dichlorophenol-d3	0.269	0.292	0.308	0.309	0.315		0.299	6.3
4-Chloroaniline-d4		0.434	0.459	0.448	0.448	0.448	0.447	2.0
4-Methylphenol		1.475	1.588	1.567	1.500	1.515	1.529	3.1
Dimethylphthalate-d6	1.383	1.515	1.537	1.473	1.442		1.470	4.1
Acenaphthylene-d8	1.413	1.623	1.708	1.707	1.666		1.623	7.6
4-Nitrophenol-d4		0.257	0.293	0.285	0.279	0.286	0.280	4.9
Fluorene-d10	1.155	1.279	1.272	1.229	1.196		1.226	4.3
4,6-Dinitro-2-methylphenol		0.113	0.129	0.132	0.137	0.150	0.132	10.0
Anthracene-d10	0.891	0.962	1.011	0.974	0.972		0.962	4.6
Pyrene-d10	0.978	1.062	1.203	1.289	1.337		1.174	12.9
Benzo(a)pyrene-d12	0.862	0.984	1.051	1.060	1.058		1.003	8.5
N-Nitroso-di-n-propylamine	1.249	1.367	1.484	1.452	1.363		1.383	6.6

All other compounds must meet a minimum RRF of 0.010.

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