

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02
Lab Code: CHEM Case No.: Q1837 SAS No.: Q1837 SDG No.: Q1837
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

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