

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02
Lab Code: CHEM Case No.: Q2318 SAS No.: Q2318 SDG No.: Q2318
Instrument ID: BNA_N Calibration Date(s): 06/19/2025 06/19/2025
Calibration Time(s): 11:00 14:16

LAB FILE ID:		RRFAL1 = BN037340.D			RRFAL2 = BN037341.D		RRFAL3 = BN037342.D	
		RRFAL4 = BN037343.D			RRFAL5 = BN037344.D		RRFAL6 = BN037345.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane	0.401	0.473	0.453	0.413	0.418		0.431	7.0
Benzaldehyde		0.783	0.805	0.782	0.577	0.342	0.658	30.3
Hexachloroethane	0.502	0.578	0.545	0.539	0.523		0.537	5.2
Nitrobenzene	0.366	0.407	0.420	0.403	0.391		0.397	5.0
Isophorone	0.520	0.598	0.636	0.664	0.640		0.612	9.2
2-Nitrophenol	0.156	0.170	0.190	0.195	0.194		0.181	9.6
2,4-Dimethylphenol	0.328	0.364	0.373	0.366	0.361		0.358	5.0
Bis(2-Chloroethoxy)methane	0.314	0.339	0.386	0.404	0.394		0.367	10.7
2,4-Dichlorophenol	0.343	0.386	0.390	0.390	0.383		0.379	5.3
Naphthalene	0.942	1.003	1.036	1.040	0.999		1.004	3.9
4-Chloroaniline		0.360	0.390	0.400	0.388	0.394	0.387	4.1
Hexachlorobutadiene	0.438	0.429	0.404	0.382	0.375		0.406	6.8
Phenol		1.117	1.145	1.207	1.219	1.216	1.181	4.0
Caprolactam		0.064	0.077	0.083	0.084	0.091	0.079	12.9
4-Chloro-3-methylphenol	0.258	0.282	0.316	0.320	0.311		0.298	9.0
2-Methylnaphthalene	0.714	0.754	0.792	0.791	0.766		0.763	4.2
Hexachlorocyclopentadiene		0.626	0.621	0.618	0.643	0.648	0.631	2.1
2,4,6-Trichlorophenol	0.419	0.453	0.473	0.484	0.498		0.465	6.6
2,4,5-Trichlorophenol	0.510	0.506	0.529	0.533	0.539		0.523	2.8
1,1-Biphenyl	1.281	1.412	1.481	1.518	1.459		1.430	6.4
2-Chloronaphthalene	1.095	1.158	1.206	1.231	1.209		1.180	4.6
2-Nitroaniline	0.180	0.226	0.275	0.286	0.276		0.249	18.0
Bis(2-Chloroethyl)ether		0.856	0.910	1.000	0.998	0.949	0.943	6.5
Dimethylphthalate	1.344	1.386	1.493	1.523	1.417		1.433	5.2
2,6-Dinitrotoluene	0.245	0.261	0.297	0.314	0.314		0.286	11.1
Acenaphthylene	1.595	1.641	1.782	1.857	1.815		1.738	6.6
3-Nitroaniline		0.186	0.222	0.237	0.229	0.214	0.218	9.0
Acenaphthene	1.085	1.136	1.219	1.241	1.192		1.175	5.4
2,4-Dinitrophenol		0.147	0.182	0.202	0.218	0.248	0.199	19.1
4-Nitrophenol		0.226	0.247	0.220	0.209	0.217	0.224	6.5
Dibenzofuran	1.747	1.802	1.868	1.875	1.795		1.818	3.0
2,4-Dinitrotoluene	0.349	0.388	0.443	0.456	0.439		0.415	10.9
Diethylphthalate	1.230	1.289	1.436	1.435	1.347		1.347	6.7
2-Chlorophenol	0.943	1.036	1.031	1.059	1.059		1.026	4.7

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	1.334	1.432	1.535	1.510	1.458		1.454	5.4
4-Chlorophenyl-phenylether	0.866	0.919	0.913	0.906	0.894		0.900	2.3
4-Nitroaniline		0.178	0.225	0.232	0.206	0.182	0.205	11.9
4,6-Dinitro-2-methylphenol		0.129	0.133	0.147	0.159	0.167	0.147	11.1
N-Nitrosodiphenylamine	0.502	0.546	0.536	0.598	0.598		0.556	7.5
1,2,4,5-Tetrachlorobenzene	0.833	0.818	0.819	0.828	0.828		0.825	0.8
4-Bromophenyl-phenylether	0.237	0.242	0.237	0.255	0.259		0.246	4.2
Hexachlorobenzene	0.268	0.275	0.271	0.280	0.291		0.277	3.3
Atrazine		0.236	0.245	0.249	0.261	0.264	0.251	4.7
Pentachlorophenol		0.158	0.174	0.186	0.196	0.207	0.184	10.2
2-Methylphenol		0.853	0.861	0.935	0.926	0.902	0.895	4.2
Phenanthrene	1.008	1.072	1.088	1.129	1.141		1.087	4.9
Anthracene	1.017	1.089	1.107	1.147	1.150		1.102	4.9
Carbazole		0.859	0.895	0.940	0.917	0.938	0.910	3.7
Di-n-butylphthalate	0.807	0.934	1.033	1.074	1.058		0.981	11.4
Fluoranthene	1.128	1.132	1.286	1.378	1.316		1.248	9.0
Pyrene	1.175	1.239	1.387	1.408	1.360		1.314	7.7
Butylbenzylphthalate	0.289	0.341	0.427	0.450	0.452		0.392	18.7
3,3-Dichlorobenzidine		0.366	0.413	0.416	0.426	0.417	0.408	5.8
2,2-oxybis(1-Chloropropane)		0.713	0.773	0.862	0.836	0.781	0.793	7.3
Benzo(a)anthracene	1.260	1.353	1.411	1.355	1.376		1.351	4.2
Chrysene	1.147	1.225	1.321	1.276	1.303		1.255	5.6
Bis(2-ethylhexyl)phthalate	0.427	0.518	0.637	0.670	0.681		0.586	18.7
Di-n-octyl phthalate		0.708	0.921	1.059	1.119	1.131	0.988	17.9
Benzo(b)fluoranthene	1.065	1.126	1.265	1.331	1.398		1.237	11.3
Benzo(k)fluoranthene	1.091	1.212	1.295	1.333	1.383		1.263	9.1
Benzo(a)pyrene	0.977	1.084	1.216	1.239	1.294		1.162	11.1
Indeno(1,2,3-cd)pyrene	1.324	1.537	1.654	1.593	1.675		1.557	9.0
Dibenzo(a,h)anthracene	1.100	1.270	1.325	1.303	1.371		1.274	8.1
Benzo(g,h,i)perylene	1.115	1.278	1.381	1.299	1.331		1.281	7.8
Acetophenone		1.534	1.531	1.583	1.550	1.517	1.543	1.6
2,3,4,6-Tetrachlorophenol	0.414	0.444	0.451	0.452	0.465		0.445	4.3
1,4-Dioxane-d8	0.308	0.383	0.411	0.387	0.383		0.374	10.4
Pyridine-d5		0.943	1.021	1.005	1.025	1.008	1.000	3.3
Phenol-d5		1.063	1.131	1.183	1.202	1.186	1.153	4.9

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Bis-(2-Chloroethyl) ether-d8		0.690	0.699	0.764	0.742	0.698	0.719	4.5
2-Chlorophenol-d4	0.928	1.016	1.031	1.082	1.056		1.022	5.7
4-Methylphenol-d8		0.878	0.916	0.989	0.967	0.970	0.944	4.8
Nitrobenzene-d5	0.123	0.142	0.153	0.156	0.158		0.147	9.8
2-Nitrophenol-d4	0.155	0.167	0.181	0.194	0.197		0.179	10.0
2,4-Dichlorophenol-d3	0.355	0.378	0.396	0.405	0.405		0.388	5.5
4-Chloroaniline-d4		0.360	0.397	0.399	0.393	0.400	0.390	4.3
4-Methylphenol		0.976	0.925	0.996	0.978	0.966	0.968	2.7
Dimethylphthalate-d6	1.392	1.429	1.493	1.575	1.488		1.475	4.7
Acenaphthylene-d8	1.454	1.534	1.684	1.746	1.697		1.623	7.6
4-Nitrophenol-d4		0.169	0.216	0.228	0.234	0.248	0.219	13.8
Fluorene-d10	1.242	1.298	1.390	1.376	1.360		1.333	4.6
4,6-Dinitro-2-methylphenol		0.122	0.126	0.143	0.159	0.164	0.143	13.3
Anthracene-d10	0.948	0.969	0.971	1.039	1.014		0.988	3.7
Pyrene-d10	0.974	0.991	1.144	1.165	1.166		1.088	8.9
Benzo(a)pyrene-d12	0.850	0.972	1.085	1.116	1.173		1.039	12.4
N-Nitroso-di-n-propylamine	0.641	0.747	0.725	0.785	0.767		0.733	7.6

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