

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02
Lab Code: CHEM Case No.: Q1370 SAS No.: Q1370 SDG No.: Q1370
Instrument ID: BNA_P Calibration Date(s): 01/29/2025 01/29/2025
Calibration Time(s): 13:16 16:40

LAB FILE ID:		RRFAL1 = BP023784.D			RRFAL2 = BP023785.D		RRFAL3 = BP023786.D	
		RRFAL4 = BP023787.D			RRFAL5 = BP023788.D		RRFAL6 = BP023789.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane	0.505	0.496	0.563	0.489	0.478		0.506	6.6
Benzaldehyde		0.992	1.156	0.957	0.744	0.495	0.869	29.4
Hexachloroethane	0.534	0.540	0.618	0.588	0.551		0.566	6.3
Nitrobenzene	0.326	0.331	0.380	0.358	0.341		0.347	6.3
Isophorone	0.657	0.638	0.782	0.733	0.695		0.701	8.3
2-Nitrophenol	0.168	0.174	0.205	0.198	0.198		0.188	8.7
2,4-Dimethylphenol	0.328	0.326	0.387	0.359	0.343		0.349	7.3
Bis(2-Chloroethoxy)methane	0.418	0.407	0.482	0.450	0.426		0.437	6.8
2,4-Dichlorophenol	0.293	0.298	0.351	0.334	0.329		0.321	7.7
Naphthalene	1.043	1.027	1.173	1.086	1.025		1.071	5.8
4-Chloroaniline		0.412	0.494	0.471	0.445	0.413	0.447	8.0
Hexachlorobutadiene	0.190	0.190	0.206	0.199	0.188		0.194	4.0
Phenol		1.631	1.944	1.831	1.840	1.840	1.817	6.3
Caprolactam		0.105	0.137	0.135	0.124	0.121	0.124	10.3
4-Chloro-3-methylphenol	0.313	0.309	0.386	0.366	0.352		0.345	9.7
2-Methylnaphthalene	0.718	0.699	0.829	0.781	0.736		0.753	6.9
Hexachlorocyclopentadiene		0.305	0.343	0.340	0.345	0.333	0.333	4.9
2,4,6-Trichlorophenol	0.351	0.362	0.433	0.415	0.414		0.395	9.1
2,4,5-Trichlorophenol	0.378	0.390	0.462	0.450	0.449		0.426	9.1
1,1-Biphenyl	1.419	1.442	1.629	1.503	1.429		1.485	5.9
2-Chloronaphthalene	1.105	1.127	1.255	1.174	1.122		1.157	5.2
2-Nitroaniline	0.273	0.273	0.330	0.323	0.306		0.301	8.9
Bis(2-Chloroethyl)ether		1.281	1.505	1.419	1.377	1.335	1.383	6.2
Dimethylphthalate	1.461	1.405	1.605	1.568	1.382		1.484	6.6
2,6-Dinitrotoluene	0.247	0.259	0.318	0.320	0.307		0.290	11.9
Acenaphthylene	1.697	1.729	1.973	1.850	1.710		1.792	6.6
3-Nitroaniline		0.290	0.364	0.340	0.309	0.292	0.319	10.1
Acenaphthene	1.220	1.211	1.396	1.312	1.213		1.270	6.4
2,4-Dinitrophenol		0.120	0.158	0.185	0.191	0.210	0.173	20.2
4-Nitrophenol		0.193	0.226	0.228	0.204	0.197	0.210	7.7
Dibenzofuran	1.733	1.699	1.922	1.807	1.641		1.760	6.2
2,4-Dinitrotoluene	0.367	0.388	0.472	0.487	0.445		0.431	12.1
Diethylphthalate	1.435	1.434	1.570	1.640	1.356		1.487	7.7
2-Chlorophenol	1.327	1.327	1.567	1.482	1.456		1.432	7.3

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	1.419	1.416	1.607	1.526	1.334		1.460	7.3
4-Chlorophenyl-phenylether	0.704	0.691	0.783	0.769	0.667		0.723	7.0
4-Nitroaniline		0.309	0.368	0.352	0.282	0.240	0.310	16.8
4,6-Dinitro-2-methylphenol		0.106	0.137	0.142	0.146	0.147	0.136	12.4
N-Nitrosodiphenylamine	0.580	0.584	0.668	0.614	0.607		0.610	5.8
1,2,4,5-Tetrachlorobenzene	0.540	0.575	0.639	0.606	0.596		0.591	6.2
4-Bromophenyl-phenylether	0.210	0.210	0.244	0.231	0.234		0.226	6.8
Hexachlorobenzene	0.258	0.258	0.292	0.280	0.278		0.273	5.4
Atrazine		0.225	0.253	0.253	0.238	0.212	0.236	7.7
Pentachlorophenol		0.135	0.169	0.175	0.182	0.180	0.168	11.4
2-Methylphenol		1.188	1.464	1.388	1.399	1.398	1.367	7.6
Phenanthrene	1.103	1.095	1.234	1.155	1.061		1.129	6.0
Anthracene	1.104	1.116	1.240	1.183	1.051		1.139	6.4
Carbazole		1.039	1.151	1.106	1.021	0.672	0.998	19.0
Di-n-butylphthalate	1.151	1.222	1.331	1.414	1.058		1.235	11.4
Fluoranthene	1.206	1.165	1.375	1.275	1.151		1.234	7.5
Pyrene	1.315	1.259	1.473	1.323	1.084		1.291	10.9
Butylbenzylphthalate	0.500	0.538	0.585	0.614	0.543		0.556	8.0
3,3-Dichlorobenzidine		0.424	0.454	0.478	0.431	0.377	0.433	8.7
2,2-oxybis(1-Chloropropane)		1.342	1.568	1.494	1.398	1.334	1.427	7.1
Benzo(a)anthracene	1.297	1.264	1.415	1.347	1.253		1.315	5.1
Chrysene	1.186	1.182	1.316	1.238	1.137		1.212	5.6
Bis(2-ethylhexyl)phthalate	0.730	0.800	0.831	0.924	0.770		0.811	9.1
Di-n-octyl phthalate		1.211	1.314	1.438	1.220	0.811	1.199	19.6
Benzo(b)fluoranthene	1.116	1.139	1.337	1.266	1.210		1.214	7.5
Benzo(k)fluoranthene	1.133	1.165	1.321	1.254	1.210		1.217	6.1
Benzo(a)pyrene	1.039	1.056	1.259	1.166	1.145		1.133	7.9
Indeno(1,2,3-cd)pyrene	1.367	1.366	1.610	1.487	1.515		1.469	7.1
Dibenzo(a,h)anthracene	1.109	1.110	1.313	1.202	1.223		1.192	7.2
Benzo(g,h,i)perylene	1.065	1.043	1.248	1.121	1.149		1.125	7.2
Acetophenone		1.977	2.470	2.302	2.231	2.072	2.210	8.8
2,3,4,6-Tetrachlorophenol	0.319	0.333	0.397	0.392	0.370		0.362	9.6
1,4-Dioxane-d8	0.471	0.475	0.531	0.469	0.461		0.481	5.9
Pyridine-d5		1.282	1.546	1.388	1.378	1.351	1.389	7.0
Phenol-d5		1.550	1.884	1.764	1.815	1.837	1.770	7.4

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COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Bis-(2-Chloroethyl) ether-d8		0.882	1.019	0.962	0.924	0.898	0.937	5.9
2-Chlorophenol-d4	1.255	1.290	1.527	1.439	1.439		1.390	8.2
4-Methylphenol-d8		1.230	1.566	1.476	1.486	1.471	1.446	8.8
Nitrobenzene-d5	0.146	0.149	0.173	0.167	0.165		0.160	7.4
2-Nitrophenol-d4	0.147	0.156	0.189	0.184	0.188		0.173	11.4
2,4-Dichlorophenol-d3	0.279	0.291	0.346	0.335	0.332		0.317	9.3
4-Chloroaniline-d4		0.429	0.522	0.498	0.474	0.446	0.474	8.0
4-Methylphenol		1.305	1.647	1.556	1.557	1.521	1.517	8.4
Dimethylphthalate-d6	1.430	1.420	1.623	1.578	1.408		1.492	6.7
Acenaphthylene-d8	1.552	1.592	1.860	1.760	1.648		1.683	7.5
4-Nitrophenol-d4		0.250	0.312	0.327	0.297	0.296	0.296	9.8
Fluorene-d10	1.206	1.193	1.366	1.310	1.206		1.256	6.1
4,6-Dinitro-2-methylphenol		0.092	0.119	0.130	0.136	0.139	0.123	15.4
Anthracene-d10	0.938	0.936	1.076	1.017	0.943		0.982	6.4
Pyrene-d10	1.033	1.014	1.184	1.092	1.035		1.072	6.5
Benzo(a)pyrene-d12	0.942	0.976	1.150	1.076	1.074		1.044	8.1
N-Nitroso-di-n-propylamine	0.950	0.919	1.188	1.103	1.045		1.041	10.6

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