Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q1403 SAS No.: Q1403 SDG No.: Q1403

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

All other compounds must meet a minimum RRF of 0.010.