Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P5193 SAS No.: P5193 SDG No.: P5193

Instrument ID: BNA_P Calibration Date(s): 11/26/2024 11/26/2024

Calibration Time(s): 12:14 17:39

LAB FILE ID: RRFAL1 = BP023321.D RRFAL2 = BP023322.D RRFAL3 = BP023323.D
RRFAL4 = BP023324.D RRFAL5 = BP023325.D RRFAL6 = BP023326.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane	0.661	0.662	0.584	0.568	0.530		0.601	9.8
Benzaldehyde		1.074	1.093	0.908	0.792	0.619	0.897	22.2
Hexachloroethane	0.625	0.638	0.569	0.572	0.551		0.591	6.5
Nitrobenzene	0.459	0.490	0.457	0.434	0.432		0.454	5.2
Isophorone	0.821	0.867	0.788	0.772	0.777		0.805	4.9
2-Nitrophenol	0.177	0.195	0.179	0.182	0.186		0.184	3.8
2,4-Dimethylphenol	0.433	0.434	0.398	0.381	0.390		0.407	6.1
Bis(2-Chloroethoxy)methane	0.485	0.477	0.448	0.434	0.429		0.455	5.5
2,4-Dichlorophenol	0.362	0.375	0.360	0.343	0.360		0.360	3.2
Naphthalene	1.138	1.134	1.003	0.985	0.975		1.047	7.8
4-Chloroaniline		0.413	0.376	0.393	0.401	0.391	0.395	3.4
Hexachlorobutadiene	0.348	0.346	0.310	0.298	0.296		0.319	8.0
Phenol		1.649	1.575	1.626	1.641	1.678	1.634	2.3
Caprolactam		0.103	0.106	0.106	0.107	0.105	0.105	1.5
4-Chloro-3-methylphenol	0.395	0.404	0.391	0.377	0.388		0.391	2.6
2-Methylnaphthalene	0.836	0.823	0.754	0.729	0.741		0.776	6.3
Hexachlorocyclopentadiene		0.295	0.311	0.332	0.385	0.429	0.351	15.8
2,4,6-Trichlorophenol	0.423	0.448	0.422	0.424	0.443		0.432	2.9
2,4,5-Trichlorophenol	0.474	0.475	0.447	0.440	0.472		0.461	3.6
1,1-Biphenyl	1.530	1.517	1.365	1.334	1.340		1.417	6.9
2-Chloronaphthalene	1.217	1.221	1.120	1.082	1.092		1.146	5.9
2-Nitroaniline	0.311	0.330	0.333	0.338	0.349		0.332	4.2
Bis(2-Chloroethyl)ether		1.413	1.262	1.269	1.248	1.255	1.290	5.4
Dimethylphthalate	1.643	1.633	1.494	1.445	1.431		1.529	6.7
2,6-Dinitrotoluene	0.276	0.297	0.292	0.294	0.307		0.293	3.8
Acenaphthylene	1.733	1.776	1.638	1.582	1.610		1.668	5.0
3-Nitroaniline		0.241	0.258	0.248	0.244	0.237	0.246	3.3
Acenaphthene	1.326	1.313	1.198	1.138	1.120		1.219	7.9
2,4-Dinitrophenol		0.153	0.160	0.189	0.210	0.234	0.189	18.0
4-Nitrophenol		0.250	0.272	0.241	0.255	0.264	0.256	4.7
Dibenzofuran	1.990	1.998	1.803	1.727	1.738		1.851	7.2
2,4-Dinitrotoluene	0.461	0.485	0.477	0.466	0.470		0.472	2.0
Diethylphthalate	1.605	1.621	1.517	1.431	1.452		1.525	5.7
2-Chlorophenol	1.243	1.299	1.159	1.179	1.191		1.214	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	1.623	1.628	1.463	1.397	1.426		1.507	7.3
4-Chlorophenyl-phenylether	0.947	0.958	0.837	0.805	0.824		0.874	8.3
4-Nitroaniline		0.211	0.248	0.217	0.213	0.191	0.216	9.4
4,6-Dinitro-2-methylphenol		0.119	0.127	0.124	0.133	0.138	0.128	5.8
N-Nitrosodiphenylamine	0.554	0.543	0.501	0.474	0.481		0.511	7.1
1,2,4,5-Tetrachlorobenzene	0.788	0.796	0.696	0.682	0.687		0.730	7.8
4-Bromophenyl-phenylether	0.257	0.253	0.230	0.216	0.225		0.236	7.5
Hexachlorobenzene	0.322	0.309	0.282	0.261	0.272		0.289	8.8
Atrazine		0.236	0.231	0.221	0.213	0.210	0.222	5.2
Pentachlorophenol		0.157	0.167	0.162	0.176	0.182	0.169	5.9
2-Methylphenol		1.254	1.173	1.190	1.218	1.223	1.212	2.6
Phenanthrene	1.136	1.110	1.016	0.954	0.953		1.034	8.3
Anthracene	1.125	1.096	1.036	0.946	0.966		1.034	7.6
Carbazole		0.880	0.867	0.838	0.825	0.802	0.842	3.8
Di-n-butylphthalate	1.044	1.069	1.050	0.995	1.017		1.035	2.8
Fluoranthene	1.268	1.218	1.153	1.138	1.210		1.197	4.4
Pyrene	1.368	1.316	1.226	1.200	1.243		1.271	5.5
Butylbenzylphthalate	0.433	0.435	0.439	0.436	0.457		0.440	2.2
3,3-Dichlorobenzidine		0.455	0.460	0.459	0.477	0.443	0.459	2.6
2,2-oxybis(1-Chloropropane)		1.800	1.591	1.541	1.485	1.424	1.568	9.2
Benzo(a)anthracene	1.456	1.400	1.292	1.283	1.275		1.341	6.1
Chrysene	1.422	1.374	1.227	1.230	1.173		1.285	8.3
Bis(2-ethylhexyl)phthalate	0.598	0.627	0.635	0.635	0.664		0.632	3.7
Di-n-octyl phthalate		0.948	1.004	0.945	0.995	0.991	0.977	2.9
Benzo(b)fluoranthene	1.312	1.257	1.242	1.243	1.229		1.257	2.6
Benzo(k)fluoranthene	1.317	1.345	1.220	1.183	1.187		1.250	6.0
Benzo(a)pyrene	1.192	1.182	1.122	1.106	1.095		1.139	3.9
Indeno(1,2,3-cd)pyrene	1.503	1.577	1.442	1.387	1.411		1.464	5.2
Dibenzo(a,h)anthracene	1.223	1.251	1.139	1.112	1.133		1.172	5.2
Benzo(g,h,i)perylene	1.173	1.209	1.082	1.057	1.084		1.121	5.9
Acetophenone		2.346	2.106	2.078	2.093	2.035	2.132	5.8
2,3,4,6-Tetrachlorophenol	0.461	0.485	0.450	0.446	0.448		0.458	3.6
1,4-Dioxane-d8	0.623	0.597	0.498	0.519	0.479		0.543	11.7
Pyridine-d5		1.447	1.330	1.411	1.400	1.396	1.397	3.0
Phenol-d5		1.571	1.517	1.535	1.590	1.634	1.569	3.0

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COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Bis-(2-Chloroethyl)ether-d8		1.094	0.989	0.971	0.956	0.940	0.990	6.1
2-Chlorophenol-d4	1.154	1.195	1.135	1.155	1.152		1.158	1.9
4-Methylphenol-d8		1.293	1.230	1.262	1.279	1.268	1.267	1.8
Nitrobenzene-d5	0.150	0.156	0.148	0.144	0.148		0.149	3.0
2-Nitrophenol-d4	0.161	0.179	0.171	0.169	0.180		0.172	4.5
2,4-Dichlorophenol-d3	0.362	0.371	0.362	0.354	0.367		0.363	1.8
4-Chloroaniline-d4		0.409	0.397	0.410	0.415	0.404	0.407	1.7
4-Methylphenol		1.345	1.286	1.295	1.317	1.294	1.308	1.8
Dimethylphthalate-d6	1.671	1.625	1.547	1.450	1.470		1.553	6.2
Acenaphthylene-d8	1.684	1.767	1.597	1.563	1.578		1.638	5.3
4-Nitrophenol-d4		0.121	0.169	0.203	0.226	0.232	0.190	24.1
Fluorene-d10	1.438	1.486	1.341	1.280	1.283		1.366	6.8
4,6-Dinitro-2-methylphenol-		0.112	0.117	0.118	0.127	0.131	0.121	6.5
Anthracene-d10	0.979	0.954	0.910	0.853	0.869		0.913	5.9
Pyrene-d10	1.114	1.067	1.024	0.992	1.028		1.045	4.5
Benzo(a)pyrene-d12	1.094	1.105	1.048	1.058	1.048		1.071	2.5
N-Nitroso-di-n-propylamine	1.155	1.265	1.150	1.133	1.104		1.162	5.2

All other compounds must meet a minimum RRF of 0.010.