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: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: BNA_E Calibration Date(s): 10/28/2024 10/28/2024

Calibration Time(s): 11:44 16:01

LAB FILE ID: RRF2.5 = BE101389.D RRF005 = BE101390.D RRF010 = BE101391.D
RRF020 = BE101392.D RRF040 = BE101393.D RRF050 = BE101394.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.134	1.073	1.142	1.153	1.143	1.141	3.0
Benzaldehyde		0.793	0.849	0.861	0.807	0.678	0.764	13.7
Phenol-d6		1.450	1.475	1.558	1.629	1.594	1.582	6.1
Phenol		1.488	1.456	1.766	1.826	1.797	1.717	10.2
bis(2-Chloroethyl)ether		1.513	1.401	1.245	1.477	1.322	1.408	6.9
2-Chlorophenol		1.335	1.305	1.371	1.403	1.369	1.369	2.9
2-Methylphenol		1.038	1.078	1.142	1.217	1.181	1.162	7.0
2,2-oxybis(1-Chloropropane)		1.840	1.857	1.816	1.794	1.711	1.772	4.3
Acetophenone		0.427	0.447	0.467	0.481	0.449	0.454	3.8
3+4-Methylphenols		1.364	1.500	1.580	1.685	1.646	1.604	8.5
n-Nitroso-di-n-propylamine	0.807	0.900	1.060	1.081	1.150	1.115	1.050	12.3
Nitrobenzene-d5		0.292	0.306	0.325	0.336	0.323	0.318	4.8
Hexachloroethane		0.497	0.486	0.492	0.497	0.495	0.492	1.3
Nitrobenzene		0.315	0.325	0.349	0.355	0.339	0.339	4.3
Isophorone		0.533	0.601	0.624	0.665	0.639	0.621	7.1
2-Nitrophenol		0.127	0.141	0.162	0.179	0.175	0.164	13.4
2,4-Dimethylphenol		0.196	0.194	0.207	0.215	0.206	0.206	4.2
bis(2-Chloroethoxy)methane		0.351	0.378	0.388	0.392	0.374	0.377	3.7
2,4-Dichlorophenol		0.257	0.268	0.285	0.297	0.287	0.285	6.0
Naphthalene		1.092	1.040	1.039	1.045	0.982	1.019	5.0
4-Chloroaniline		0.321	0.355	0.373	0.398	0.364	0.354	8.9
Hexachlorobutadiene		0.193	0.185	0.187	0.187	0.179	0.184	3.3
Caprolactam		0.077	0.093	0.109	0.119	0.118	0.109	16.5
4-Chloro-3-methylphenol		0.277	0.314	0.321	0.341	0.330	0.325	7.5
2-Methylnaphthalene		0.753	0.752	0.736	0.756	0.711	0.734	3.1
Hexachlorocyclopentadiene		0.153	0.150	0.179	0.177	0.173	0.166	6.9
2,4,6-Trichlorophenol		0.310	0.325	0.352	0.369	0.353	0.346	6.0
2-Fluorobiphenyl		1.359	1.275	1.283	1.226	1.114	1.181	12.4
2,4,5-Trichlorophenol		0.356	0.372	0.401	0.415	0.402	0.396	5.9
1,1-Biphenyl		1.477	1.399	1.431	1.408	1.326	1.370	6.2
2-Chloronaphthalene		1.159	1.091	1.112	1.098	1.054	1.083	4.6
2-Nitroaniline		0.214	0.243	0.295	0.318	0.318	0.291	15.4
Dimethylphthalate		1.446	1.469	1.459	1.449	1.378	1.412	4.4
Acenaphthylene		1.613	1.605	1.656	1.677	1.586	1.601	4.1

All other compounds must meet a minimum RRF of 0.010.

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.284	0.309	0.331	0.345	0.333	0.326	6.8
3-Nitroaniline		0.266	0.296	0.342	0.357	0.347	0.324	10.2
Acenaphthene		1.120	1.080	1.073	1.075	1.016	1.045	5.8
2,4-Dinitrophenol			0.125	0.177	0.208	0.219	0.198	20.8
4-Nitrophenol			0.219	0.291	0.311	0.318	0.297	13.3
Dibenzofuran		1.828	1.739	1.721	1.695	1.604	1.666	7.0
2,4-Dinitrotoluene		0.344	0.407	0.454	0.481	0.480	0.449	12.2
Diethylphthalate		1.499	1.532	1.560	1.535	1.456	1.477	5.5
4-Chlorophenyl-phenylether		0.737	0.713	0.705	0.707	0.676	0.692	5.0
Fluorene		1.490	1.450	1.446	1.453	1.354	1.394	6.7
4-Nitroaniline		0.267	0.316	0.374	0.391	0.393	0.361	13.8
4,6-Dinitro-2-methylphenol			0.086	0.108	0.123	0.125	0.118	15.2
n-Nitrosodiphenylamine		0.542	0.548	0.545	0.553	0.516	0.530	4.3
2,4,6-Tribromophenol		0.329	0.341	0.358	0.366	0.355	0.351	3.6
4-Bromophenyl-phenylether		0.211	0.207	0.209	0.215	0.208	0.210	1.5
Hexachlorobenzene		0.283	0.272	0.274	0.283	0.271	0.276	2.0
Atrazine		0.182	0.179	0.160	0.184	0.109	0.163	19.4
Pentachlorophenol		0.116	0.137	0.159	0.173	0.172	0.159	14.9
Phenanthrene		1.068	1.023	1.012	0.991	0.912	0.958	9.6
Anthracene		1.002	0.972	0.997	0.979	0.909	0.935	8.1
Carbazole		1.010	0.987	1.033	0.995	0.939	0.957	7.6
Di-n-butylphthalate		1.018	1.088	1.221	1.136	1.058	1.053	10.7
Fluoranthene		1.320	1.268	1.306	1.199	1.102	1.163	13.3
Pyrene		1.176	1.206	1.184	1.174	1.052	1.100	10.7
Terphenyl-d14		1.036	1.023	0.970	0.841	0.686	0.869	19.3
Butylbenzylphthalate		0.443	0.467	0.515	0.510	0.494	0.482	5.7
3,3-Dichlorobenzidine		0.404	0.438	0.470	0.481	0.450	0.440	7.1
Benzo(a)anthracene		1.277	1.238	1.243	1.174	1.047	1.124	13.2
Chrysene		1.266	1.225	1.201	1.110	1.005	1.087	14.5
Bis(2-ethylhexyl)phthalate		0.550	0.608	0.705	0.698	0.672	0.641	9.1
Di-n-octyl phthalate		0.987	1.057	1.209	1.137	1.053	1.051	9.9
Benzo(b)fluoranthene		1.076	1.113	1.100	1.110	1.023	1.042	8.3
Benzo(k)fluoranthene		1.126	1.042	1.087	1.015	0.897	0.974	13.1
Benzo(a)pyrene		0.935	0.933	0.961	0.966	0.899	0.912	6.4
Indeno(1,2,3-cd)pyrene		1.390	1.352	1.390	1.394	1.315	1.338	4.8

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Dibenzo(a,h)anthracene		1.130	1.125	1.169	1.170	1.089	1.106	6.0
Benzo(g,h,i)perylene		1.162	1.130	1.155	1.179	1.125	1.140	3.0
1,2,4,5-Tetrachlorobenzene		0.522	0.493	0.515	0.512	0.491	0.502	3.0
1,4-Dioxane		0.471	0.463	0.454	0.421	0.400	0.426	8.8
2,3,4,6-Tetrachlorophenol		0.345	0.355	0.368	0.382	0.367	0.366	3.5

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