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: JACO05

Lab Code: CHEM Case No.: Q1812 SAS No.: Q1812 SDG No.: Q1812

Instrument ID: BNA_P Calibration Date(s): 04/14/2025 04/14/2025

Calibration Time(s): 11:06 17:13

LAB FILE ID: RRF2.5 = BP024275.D RRF005 = BP024276.D RRF010 = BP024277.D
RRF020 = BP024278.D RRF040 = BP024279.D RRF050 = BP024280.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.123	1.145	1.262	1.254	1.210	1.210	4.9
Benzaldehyde		0.943	0.934	0.942	0.836	0.732	0.819	15.7
Phenol-d6		1.463	1.552	1.718	1.748	1.697	1.656	6.7
Phenol		1.475	1.565	1.720	1.750	1.698	1.661	6.5
bis(2-Chloroethyl)ether		1.278	1.317	1.399	1.398	1.321	1.339	3.6
2-Chlorophenol		1.260	1.297	1.412	1.399	1.359	1.350	4.3
2-Methylphenol		0.915	1.002	1.123	1.140	1.105	1.075	8.0
2,2-oxybis(1-Chloropropane)		1.452	1.496	1.517	1.514	1.405	1.447	4.5
Acetophenone		0.470	0.487	0.522	0.519	0.490	0.495	3.8
3+4-Methylphenols		1.224	1.365	1.560	1.592	1.567	1.491	9.6
n-Nitroso-di-n-propylamine	0.941	1.008	1.008	1.088	1.084	1.041	1.025	4.8
Nitrobenzene-d5		0.322	0.337	0.367	0.368	0.357	0.351	4.8
Hexachloroethane		0.532	0.537	0.558	0.542	0.521	0.533	2.9
Nitrobenzene		0.328	0.334	0.362	0.364	0.349	0.347	4.0
Isophorone		0.575	0.601	0.653	0.673	0.650	0.635	5.4
2-Nitrophenol		0.130	0.143	0.172	0.183	0.184	0.170	14.0
2,4-Dimethylphenol		0.180	0.194	0.219	0.226	0.225	0.213	8.8
bis(2-Chloroethoxy)methane		0.412	0.426	0.444	0.452	0.430	0.429	3.5
2,4-Dichlorophenol		0.242	0.268	0.297	0.308	0.307	0.291	8.9
Naphthalene		1.044	1.054	1.091	1.079	1.037	1.054	2.3
4-Chloroaniline		0.328	0.349	0.389	0.397	0.378	0.371	6.5
Hexachlorobutadiene		0.181	0.181	0.186	0.189	0.181	0.183	1.6
Caprolactam		0.085	0.092	0.111	0.112	0.115	0.107	12.5
4-Chloro-3-methylphenol		0.284	0.310	0.349	0.357	0.356	0.339	8.8
2-Methylnaphthalene		0.700	0.720	0.755	0.755	0.733	0.731	2.9
Hexachlorocyclopentadiene		0.162	0.185	0.197	0.218	0.199	0.195	8.9
2,4,6-Trichlorophenol		0.301	0.335	0.369	0.389	0.386	0.366	9.5
2-Fluorobiphenyl		1.332	1.334	1.359	1.366	1.263	1.306	4.1
2,4,5-Trichlorophenol		0.332	0.371	0.409	0.427	0.429	0.405	9.6
1,1-Biphenyl		1.454	1.489	1.528	1.529	1.434	1.470	3.1
2-Chloronaphthalene		1.063	1.100	1.135	1.139	1.085	1.099	2.6
2-Nitroaniline		0.250	0.270	0.317	0.330	0.324	0.308	11.0
Dimethylphthalate		1.429	1.416	1.495	1.495	1.460	1.454	2.2
Acenaphthylene		1.604	1.680	1.793	1.814	1.726	1.730	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		0.264	0.290	0.319	0.325	0.319	0.309	7.6
3-Nitroaniline		0.250	0.289	0.338	0.354	0.342	0.325	12.2
Acenaphthene		1.087	1.087	1.141	1.126	1.081	1.097	2.4
2,4-Dinitrophenol			0.125	0.163	0.186	0.196	0.182	18.2
4-Nitrophenol		0.190	0.231	0.289	0.305	0.306	0.280	17.9
Dibenzofuran		1.801	1.807	1.871	1.833	1.746	1.793	2.8
2,4-Dinitrotoluene		0.334	0.368	0.439	0.448	0.442	0.421	11.8
Diethylphthalate		1.451	1.484	1.528	1.550	1.499	1.499	2.2
4-Chlorophenyl-phenylether		0.667	0.675	0.699	0.680	0.667	0.674	2.0
Fluorene		1.376	1.397	1.454	1.398	1.368	1.388	2.4
4-Nitroaniline		0.263	0.300	0.353	0.369	0.364	0.344	13.0
4,6-Dinitro-2-methylphenol			0.095	0.118	0.131	0.134	0.126	13.5
n-Nitrosodiphenylamine		0.567	0.585	0.616	0.630	0.591	0.597	3.7
2,4,6-Tribromophenol		0.235	0.256	0.278	0.289	0.289	0.277	8.3
4-Bromophenyl-phenylether		0.203	0.212	0.220	0.230	0.220	0.219	4.1
Hexachlorobenzene		0.247	0.247	0.260	0.271	0.261	0.260	3.7
Atrazine		0.176	0.167	0.134	0.121	0.162	0.152	15.6
Pentachlorophenol		0.143	0.155	0.175	0.196	0.197	0.181	13.3
Phenanthrene		1.098	1.086	1.117	1.127	1.070	1.091	2.3
Anthracene		0.995	1.017	1.084	1.111	1.053	1.052	3.9
Carbazole		0.968	0.998	1.060	1.084	1.014	1.027	3.8
Di-n-butylphthalate		1.147	1.230	1.253	1.398	1.310	1.280	6.3
Fluoranthene		1.289	1.274	1.316	1.347	1.280	1.298	2.1
Pyrene		1.192	1.236	1.345	1.305	1.294	1.271	4.4
Terphenyl-d14		0.967	0.998	1.055	1.032	1.005	0.992	4.4
Butylbenzylphthalate		0.434	0.488	0.546	0.596	0.580	0.544	11.2
3,3-Dichlorobenzidine		0.345	0.383	0.431	0.486	0.463	0.436	12.3
Benzo(a)anthracene		1.195	1.214	1.292	1.293	1.234	1.243	3.1
Chrysene		1.180	1.181	1.229	1.213	1.173	1.191	1.9
Bis(2-ethylhexyl)phthalate		0.639	0.735	0.779	0.893	0.853	0.798	11.1
Di-n-octyl phthalate		0.945	1.093	1.222	1.461	1.430	1.297	16.5
Benzo(b)fluoranthene		1.130	1.174	1.217	1.258	1.196	1.199	3.3
Benzo(k)fluoranthene		1.088	1.131	1.217	1.212	1.154	1.158	3.9
Benzo(a)pyrene		0.939	0.971	1.057	1.091	1.053	1.034	5.4
Indeno(1,2,3-cd)pyrene		1.252	1.304	1.407	1.444	1.401	1.388	5.8

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Dibenzo(a,h)anthracene		1.046	1.089	1.172	1.203	1.169	1.152	5.3
Benzo(g,h,i)perylene		1.073	1.110	1.198	1.218	1.180	1.173	5.0
1,2,4,5-Tetrachlorobenzene		0.522	0.538	0.568	0.576	0.544	0.550	3.3
1,4-Dioxane		0.551	0.517	0.552	0.512	0.481	0.512	6.1
2,3,4,6-Tetrachlorophenol		0.327	0.351	0.380	0.389	0.387	0.373	6.6

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