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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

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

Instrument ID: BNA_P Calibration Date/Time: 02/26/2025 11:21

Lab File ID: BP024110.D Init. Calib. Date(s): 01/29/2025 01/29/2025

EPA Sample No.: SSTD020662 Init. Calib. Time(s): 13:16 16:40

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.506	0.579	0.010	14.3	40.0
Benzaldehyde	0.869	1.177	0.010	35.5	40.0
Phenol	1.817	1.902	0.080	4.7	20.0
Bis(2-Chloroethyl)ether	1.383	1.524	0.100	10.2	20.0
2-Chlorophenol	1.432	1.519	0.200	6.1	20.0
2-Methylphenol	1.367	1.365	0.010	-0.2	20.0
2,2-oxybis(1-Chloropropane)	1.427	1.652	0.010	15.7	40.0
Acetophenone	2.210	2.322	0.060	5.1	20.0
4-Methylphenol	1.517	1.528	0.010	0.7	20.0
N-Nitroso-di-n-propylamine	1.041	1.113	0.050	6.9	30.0
Hexachloroethane	0.566	0.612	0.100	8.2	20.0
Nitrobenzene	0.347	0.400	0.050	15.2	25.0
Isophorone	0.701	0.733	0.050	4.6	25.0
2-Nitrophenol	0.188	0.193	0.050	2.3	25.0
2,4-Dimethylphenol	0.349	0.370	0.050	6.0	25.0
Bis(2-Chloroethoxy)methane	0.437	0.480	0.050	10.0	20.0
2,4-Dichlorophenol	0.321	0.328	0.060	2.2	20.0
Naphthalene	1.071	1.165	0.200	8.9	20.0
4-Chloroaniline	0.447	0.462	0.010	3.4	40.0
Hexachlorobutadiene	0.194	0.205	0.040	5.4	30.0
Caprolactam	0.124	0.098	0.010	-21.0	40.0
4-Chloro-3-methylphenol	0.345	0.334	0.040	-3.1	25.0
2-Methylnaphthalene	0.753	0.788	0.100	4.6	20.0
Hexachlorocyclopentadiene	0.333	0.371	0.010	11.3	40.0
2,4,6-Trichlorophenol	0.395	0.404	0.090	2.3	25.0
2,4,5-Trichlorophenol	0.426	0.441	0.100	3.7	25.0
1,1-Biphenyl	1.485	1.689	0.200	13.8	20.0
2-Chloronaphthalene	1.157	1.303	0.300	12.6	20.0
2-Nitroaniline	0.301	0.321	0.050	6.8	40.0
Dimethylphthalate	1.484	1.524	0.300	2.7	20.0
2,6-Dinitrotoluene	0.290	0.289	0.080	-0.4	30.0
Acenaphthylene	1.792	1.970	0.400	9.9	20.0
3-Nitroaniline	0.319	0.318	0.010	-0.4	40.0
Acenaphthene	1.270	1.388	0.200	9.2	20.0
2,4-Dinitrophenol	0.173	0.139	0.010	-19.6	40.0
4-Nitrophenol	0.210	0.197	0.010	-6.2	40.0
Dibenzofuran	1.760	1.878	0.300	6.7	20.0
2,4-Dinitrotoluene	0.431	0.413	0.070	-4.4	30.0
Diethylphthalate	1.487	1.480	0.300	-0.5	20.0

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COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Fluorene	1.460	1.536	0.200	5.2	20.0
4-Chlorophenyl-phenylether	0.723	0.735	0.100	1.7	20.0
4-Nitroaniline	0.310	0.318	0.010	2.5	40.0
4,6-Dinitro-2-methylphenol	0.136	0.132	0.010	-2.4	40.0
N-Nitrosodiphenylamine	0.610	0.694	0.050	13.6	20.0
1,2,4,5-Tetrachlorobenzene	0.591	0.663	0.100	12.1	20.0
4-Bromophenyl-phenylether	0.226	0.244	0.070	8.2	20.0
Hexachlorobenzene	0.273	0.287	0.050	5.1	25.0
Atrazine	0.236	0.236	0.010	-0.1	25.0
Pentachlorophenol	0.168	0.156	0.010	-7.5	40.0
Phenanthrene	1.129	1.249	0.200	10.6	20.0
Anthracene	1.139	1.238	0.200	8.7	20.0
Carbazole	0.998	1.108	0.050	11.0	40.0
Di-n-butylphthalate	1.235	1.267	0.500	2.6	25.0
Fluoranthene	1.234	1.451	0.400	17.6	25.0
Pyrene	1.291	1.572	0.400	21.8	25.0
Butylbenzylphthalate	0.556	0.537	0.100	-3.5	40.0
3,3-Dichlorobenzidine	0.433	0.416	0.010	-3.9	40.0
Benzo(a)anthracene	1.315	1.422	0.300	8.1	30.0
Chrysene	1.212	1.335	0.200	10.1	30.0
Bis(2-ethylhexyl)phthalate	0.811	0.779	0.200	-4.0	40.0
Di-n-octyl phthalate	1.199	1.109	0.010	-7.5	40.0
Benzo(b)fluoranthene	1.214	1.311	0.200	8.0	25.0
Benzo(k)fluoranthene	1.217	1.334	0.200	9.7	25.0
Benzo(a)pyrene	1.133	1.236	0.200	9.1	20.0
Indeno(1,2,3-cd)pyrene	1.469	1.585	0.200	7.9	25.0
Dibenzo(a,h)anthracene	1.192	1.297	0.200	8.9	30.0
Benzo(g,h,i)perylene	1.125	1.246	0.200	10.7	30.0
2,3,4,6-Tetrachlorophenol	0.362	0.339	0.040	-6.4	20.0
1,4-Dioxane-d8	0.481	0.546	0.010	13.5	25.0
Pyridine-d5	1.389	1.548	0.010	11.5	40.0
Phenol-d5	1.770	1.799	0.010	1.6	25.0
Bis-(2-Chloroethyl)ether-d8	0.937	1.088	0.050	16.1	25.0
2-Chlorophenol-d4	1.390	1.451	0.200	4.4	20.0
4-Methylphenol-d8	1.446	1.427	0.010	-1.3	20.0
Nitrobenzene-d5	0.160	0.169	0.050	5.9	20.0
2-Nitrophenol-d4	0.173	0.171	0.050	-1.0	30.0
2,4-Dichlorophenol-d3	0.317	0.321	0.060	1.3	20.0
4-Chloroaniline-d4	0.474	0.482	0.010	1.7	40.0

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COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Dimethylphthalate-d6	1.492	1.537	0.300	3.0	20.0
Acenaphthylene-d8	1.683	1.823	0.400	8.3	20.0
4-Nitrophenol-d4	0.296	0.268	0.010	-9.6	40.0
Fluorene-d10	1.256	1.308	0.100	4.1	20.0
4,6-Dinitro-2-methylphenol-d2	0.123	0.117	0.010	-5.5	40.0
Anthracene-d10	0.982	1.068	0.300	8.8	20.0
Pyrene-d10	1.072	1.226	0.300	14.5	25.0
Benzo(a)pyrene-d12	1.044	1.098	0.010	5.3	20.0

All other compounds must meet a minimum RRF of 0.010.