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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q1328 SAS No.: Q1328 SDG No.: Q1328

Instrument ID: BNA_P Calibration Date/Time: 02/11/2025 10:16

Lab File ID: BP024032.D Init. Calib. Date(s): 01/29/2025 01/29/2025

EPA Sample No.: SSTD020657 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	0.503	0.010	-0.7	40.0
Benzaldehyde	0.869	1.125	0.010	29.5	40.0
Phenol	1.817	1.946	0.080	7.1	20.0
Bis(2-Chloroethyl)ether	1.383	1.444	0.100	4.4	20.0
2-Chlorophenol	1.432	1.566	0.200	9.4	20.0
2-Methylphenol	1.367	1.435	0.010	5.0	20.0
2,2-oxybis(1-Chloropropane)	1.427	1.476	0.010	3.4	40.0
Acetophenone	2.210	2.319	0.060	4.9	20.0
4-Methylphenol	1.517	1.604	0.010	5.7	20.0
N-Nitroso-di-n-propylamine	1.041	1.055	0.050	1.4	30.0
Hexachloroethane	0.566	0.597	0.100	5.5	20.0
Nitrobenzene	0.347	0.385	0.050	10.9	25.0
Isophorone	0.701	0.700	0.050	-0.1	25.0
2-Nitrophenol	0.188	0.205	0.050	8.8	25.0
2,4-Dimethylphenol	0.349	0.382	0.050	9.5	25.0
Bis(2-Chloroethoxy)methane	0.437	0.453	0.050	3.7	20.0
2,4-Dichlorophenol	0.321	0.355	0.060	10.6	20.0
Naphthalene	1.071	1.180	0.200	10.2	20.0
4-Chloroaniline	0.447	0.483	0.010	8.1	40.0
Hexachlorobutadiene	0.194	0.209	0.040	7.6	30.0
Caprolactam	0.124	0.115	0.010	-7.9	40.0
4-Chloro-3-methylphenol	0.345	0.359	0.040	3.9	25.0
2-Methylnaphthalene	0.753	0.801	0.100	6.5	20.0
Hexachlorocyclopentadiene	0.333	0.375	0.010	12.5	40.0
2,4,6-Trichlorophenol	0.395	0.435	0.090	10.1	25.0
2,4,5-Trichlorophenol	0.426	0.476	0.100	11.7	25.0
1,1-Biphenyl	1.485	1.675	0.200	12.8	20.0
2-Chloronaphthalene	1.157	1.315	0.300	13.6	20.0
2-Nitroaniline	0.301	0.329	0.050	9.2	40.0
Dimethylphthalate	1.484	1.542	0.300	3.9	20.0
2,6-Dinitrotoluene	0.290	0.311	0.080	7.3	30.0
Acenaphthylene	1.792	2.007	0.400	12.0	20.0
3-Nitroaniline	0.319	0.344	0.010	7.8	40.0
Acenaphthene	1.270	1.394	0.200	9.8	20.0
2,4-Dinitrophenol	0.173	0.174	0.010	0.5	40.0
4-Nitrophenol	0.210	0.202	0.010	-3.7	40.0
Dibenzofuran	1.760	1.923	0.300	9.2	20.0
2,4-Dinitrotoluene	0.431	0.453	0.070	5.0	30.0
Diethylphthalate	1.487	1.509	0.300	1.4	20.0

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COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Fluorene	1.460	1.607	0.200	10.0	20.0
4-Chlorophenyl-phenylether	0.723	0.781	0.100	8.1	20.0
4-Nitroaniline	0.310	0.362	0.010	16.7	40.0
4,6-Dinitro-2-methylphenol	0.136	0.120	0.010	-11.6	40.0
N-Nitrosodiphenylamine	0.610	0.669	0.050	9.5	20.0
1,2,4,5-Tetrachlorobenzene	0.591	0.674	0.100	14.1	20.0
4-Bromophenyl-phenylether	0.226	0.239	0.070	6.1	20.0
Hexachlorobenzene	0.273	0.287	0.050	5.0	25.0
Atrazine	0.236	0.239	0.010	1.1	25.0
Pentachlorophenol	0.168	0.166	0.010	-1.6	40.0
Phenanthrene	1.129	1.230	0.200	8.9	20.0
Anthracene	1.139	1.261	0.200	10.8	20.0
Carbazole	0.998	1.137	0.050	14.0	40.0
Di-n-butylphthalate	1.235	1.292	0.500	4.6	25.0
Fluoranthene	1.234	1.371	0.400	11.0	25.0
Pyrene	1.291	1.455	0.400	12.7	25.0
Butylbenzylphthalate	0.556	0.556	0.100	0.1	40.0
3,3-Dichlorobenzidine	0.433	0.447	0.010	3.3	40.0
Benzo(a)anthracene	1.315	1.422	0.300	8.1	30.0
Chrysene	1.212	1.344	0.200	10.9	30.0
Bis(2-ethylhexyl)phthalate	0.811	0.799	0.200	-1.5	40.0
Di-n-octyl phthalate	1.199	1.209	0.010	0.8	40.0
Benzo(b)fluoranthene	1.214	1.312	0.200	8.1	25.0
Benzo(k)fluoranthene	1.217	1.338	0.200	10.0	25.0
Benzo(a)pyrene	1.133	1.219	0.200	7.6	20.0
Indeno(1,2,3-cd)pyrene	1.469	1.514	0.200	3.1	25.0
Dibenzo(a,h)anthracene	1.192	1.224	0.200	2.7	30.0
Benzo(g,h,i)perylene	1.125	1.175	0.200	4.4	30.0
2,3,4,6-Tetrachlorophenol	0.362	0.382	0.040	5.3	20.0
1,4-Dioxane-d8	0.481	0.490	0.010	1.8	25.0
Pyridine-d5	1.389	1.413	0.010	1.7	40.0
Phenol-d5	1.770	1.869	0.010	5.6	25.0
Bis-(2-Chloroethyl)ether-d8	0.937	0.989	0.050	5.5	25.0
2-Chlorophenol-d4	1.390	1.531	0.200	10.1	20.0
4-Methylphenol-d8	1.446	1.503	0.010	4.0	20.0
Nitrobenzene-d5	0.160	0.175	0.050	9.6	20.0
2-Nitrophenol-d4	0.173	0.187	0.050	8.4	30.0
2,4-Dichlorophenol-d3	0.317	0.353	0.060	11.4	20.0
4-Chloroaniline-d4	0.474	0.508	0.010	7.3	40.0

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COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Dimethylphthalate-d6	1.492	1.538	0.300	3.1	20.0
Acenaphthylene-d8	1.683	1.847	0.400	9.8	20.0
4-Nitrophenol-d4	0.296	0.270	0.010	-9.0	40.0
Fluorene-d10	1.256	1.346	0.100	7.2	20.0
4,6-Dinitro-2-methylphenol-d2	0.123	0.109	0.010	-11.6	40.0
Anthracene-d10	0.982	1.056	0.300	7.6	20.0
Pyrene-d10	1.072	1.158	0.300	8.0	25.0
Benzo(a)pyrene-d12	1.044	1.123	0.010	7.6	20.0

All other compounds must meet a minimum RRF of 0.010.