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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q1676 SAS No.: Q1676 SDG No.: Q1676

Instrument ID: BNA_P Calibration Date/Time: 04/01/2025 09:56

Lab File ID: BP024205.D Init. Calib. Date(s): 03/04/2025 03/04/2025

EPA Sample No.: SSTD020671 Init. Calib. Time(s): 09:37 13:01

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.530	0.583	0.010	10.1	40.0
Benzaldehyde	0.915	1.230	0.010	34.4	40.0
Phenol	1.844	2.025	0.080	9.8	20.0
Bis(2-Chloroethyl)ether	1.403	1.624	0.100	15.8	20.0
2-Chlorophenol	1.421	1.595	0.200	12.3	20.0
2-Methylphenol	1.348	1.458	0.010	8.2	20.0
2,2-oxybis(1-Chloropropane)	1.471	1.795	0.010	22.0	40.0
Acetophenone	2.169	2.451	0.060	13.0	20.0
4-Methylphenol	1.493	1.654	0.010	10.8	20.0
N-Nitroso-di-n-propylamine	1.017	1.212	0.050	19.1	30.0
Hexachloroethane	0.566	0.632	0.100	11.6	20.0
Nitrobenzene	0.363	0.400	0.050	10.1	25.0
Isophorone	0.680	0.763	0.050	12.2	25.0
2-Nitrophenol	0.187	0.203	0.050	8.6	25.0
2,4-Dimethylphenol	0.335	0.368	0.050	10.1	25.0
Bis(2-Chloroethoxy)methane	0.433	0.487	0.050	12.6	20.0
2,4-Dichlorophenol	0.310	0.334	0.060	7.7	20.0
Naphthalene	1.083	1.169	0.200	7.9	20.0
4-Chloroaniline	0.442	0.475	0.010	7.4	40.0
Hexachlorobutadiene	0.190	0.204	0.040	7.6	30.0
Caprolactam	0.118	0.120	0.010	1.7	40.0
4-Chloro-3-methylphenol	0.322	0.363	0.040	12.5	25.0
2-Methylnaphthalene	0.731	0.796	0.100	9.0	20.0
Hexachlorocyclopentadiene	0.314	0.317	0.010	0.8	40.0
2,4,6-Trichlorophenol	0.380	0.409	0.090	7.7	25.0
2,4,5-Trichlorophenol	0.414	0.443	0.100	7.0	25.0
1,1-Biphenyl	1.521	1.625	0.200	6.8	20.0
2-Chloronaphthalene	1.180	1.251	0.300	6.0	20.0
2-Nitroaniline	0.307	0.345	0.050	12.5	40.0
Dimethylphthalate	1.450	1.580	0.300	9.0	20.0
2,6-Dinitrotoluene	0.284	0.324	0.080	14.0	30.0
Acenaphthylene	1.821	1.943	0.400	6.7	20.0
3-Nitroaniline	0.331	0.353	0.010	6.7	40.0
Acenaphthene	1.282	1.380	0.200	7.6	20.0
2,4-Dinitrophenol	0.177	0.173	0.010	-2.2	40.0
4-Nitrophenol	0.206	0.202	0.010	-2.0	40.0
Dibenzofuran	1.768	1.894	0.300	7.2	20.0
2,4-Dinitrotoluene	0.423	0.483	0.070	14.0	30.0
Diethylphthalate	1.435	1.590	0.300	10.8	20.0

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COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Fluorene	1.445	1.563	0.200	8.1	20.0
4-Chlorophenyl-phenylether	0.698	0.764	0.100	9.5	20.0
4-Nitroaniline	0.325	0.362	0.010	11.4	40.0
4,6-Dinitro-2-methylphenol	0.138	0.148	0.010	7.6	40.0
N-Nitrosodiphenylamine	0.610	0.670	0.050	9.8	20.0
1,2,4,5-Tetrachlorobenzene	0.604	0.628	0.100	3.9	20.0
4-Bromophenyl-phenylether	0.220	0.242	0.070	9.6	20.0
Hexachlorobenzene	0.268	0.293	0.050	9.6	25.0
Atrazine	0.221	0.262	0.010	18.9	25.0
Pentachlorophenol	0.168	0.183	0.010	8.8	40.0
Phenanthrene	1.143	1.246	0.200	9.0	20.0
Anthracene	1.152	1.241	0.200	7.7	20.0
Carbazole	1.046	1.132	0.050	8.2	40.0
Di-n-butylphthalate	1.218	1.425	0.500	16.9	25.0
Fluoranthene	1.168	1.344	0.400	15.1	25.0
Pyrene	1.259	1.437	0.400	14.2	25.0
Butylbenzylphthalate	0.508	0.610	0.100	20.2	40.0
3,3-Dichlorobenzidine	0.400	0.382	0.010	-4.6	40.0
Benzo(a)anthracene	1.309	1.417	0.300	8.3	30.0
Chrysene	1.229	1.309	0.200	6.5	30.0
Bis(2-ethylhexyl)phthalate	0.762	0.919	0.200	20.7	40.0
Di-n-octyl phthalate	1.168	1.466	0.010	25.5	40.0
Benzo(b)fluoranthene	1.190	1.395	0.200	17.2	25.0
Benzo(k)fluoranthene	1.207	1.385	0.200	14.7	25.0
Benzo(a)pyrene	1.125	1.257	0.200	11.7	20.0
Indeno(1,2,3-cd)pyrene	1.487	1.432	0.200	-3.7	25.0
Dibenzo(a,h)anthracene	1.208	1.158	0.200	-4.1	30.0
Benzo(g,h,i)perylene	1.154	1.086	0.200	-5.9	30.0
2,3,4,6-Tetrachlorophenol	0.340	0.377	0.040	10.8	20.0
1,4-Dioxane-d8	0.502	0.540	0.010	7.6	25.0
Pyridine-d5	1.444	1.584	0.010	9.6	40.0
Phenol-d5	1.775	1.912	0.010	7.7	25.0
Bis-(2-Chloroethyl)ether-d8	0.977	1.168	0.050	19.5	25.0
2-Chlorophenol-d4	1.362	1.544	0.200	13.3	20.0
4-Methylphenol-d8	1.401	1.530	0.010	9.2	20.0
Nitrobenzene-d5	0.161	0.175	0.050	8.4	20.0
2-Nitrophenol-d4	0.169	0.183	0.050	8.5	30.0
2,4-Dichlorophenol-d3	0.303	0.331	0.060	9.3	20.0
4-Chloroaniline-d4	0.463	0.495	0.010	6.8	40.0

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COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Dimethylphthalate-d6	1.449	1.570	0.300	8.3	20.0
Acenaphthylene-d8	1.681	1.817	0.400	8.1	20.0
4-Nitrophenol-d4	0.297	0.293	0.010	-1.2	40.0
Fluorene-d10	1.231	1.349	0.100	9.6	20.0
4,6-Dinitro-2-methylphenol-d2	0.126	0.136	0.010	7.4	40.0
Anthracene-d10	0.976	1.059	0.300	8.5	20.0
Pyrene-d10	1.002	1.151	0.300	14.8	25.0
Benzo(a)pyrene-d12	1.037	1.163	0.010	12.2	20.0

All other compounds must meet a minimum RRF of 0.010.