

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: AECO15
Lab Code: CHEM Case No.: P5376 SAS No.: P5376 SDG No.: P5376
Instrument ID: MSVOA_X Calibration Date(s): 12/11/2024 12/11/2024
Heated Purge: (Y/N) N Calibration Time(s): 10:41 13:00
GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:	RRF001 = VX044219.D			RRF005 = VX044220.D		RRF020 = VX044221.D		RRF050 = VX044222.D		RRF100 = VX044223.D		RRF150 = VX044224.D	
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD					
Dichlorodifluoromethane	0.877	0.749	0.721	0.788	0.745	0.759	0.773	7.2					
Chloromethane	0.743	0.747	0.735	0.756	0.715	0.740	0.739	1.8					
Vinyl Chloride	0.805	0.790	0.782	0.786	0.722	0.737	0.770	4.3					
Bromomethane		0.590	0.513	0.551	0.529	0.548	0.546	5.3					
Chloroethane	0.464	0.520	0.515	0.532	0.422	0.426	0.480	10.2					
Trichlorofluoromethane	1.582	1.519	1.514	1.541	1.478	1.414	1.508	3.8					
1,1,2-Trichlorotrifluoroethane	0.633	0.628	0.592	0.615	0.573	0.620	0.610	3.8					
1,1-Dichloroethene	0.512	0.560	0.544	0.596	0.554	0.596	0.560	5.7					
Acetone	0.359	0.353	0.331	0.381	0.348	0.372	0.357	5					
Carbon Disulfide	0.841	0.872	0.937	1.150	1.230	1.362	1.065	20					
Methyl tert-butyl Ether	2.054	2.188	2.127	2.305	2.170	2.279	2.187	4.3					
Methyl Acetate	0.965	0.889	0.883	0.953	0.888	0.951	0.922	4.2					
Methylene Chloride	0.679	0.678	0.666	0.689	0.648	0.668	0.671	2.1					
trans-1,2-Dichloroethene	0.600	0.556	0.577	0.619	0.595	0.626	0.596	4.4					
1,1-Dichloroethane	1.071	1.173	1.154	1.244	1.171	1.218	1.172	5.1					
Cyclohexane		0.931	0.963	0.977	0.922	0.938	0.946	2.4					
2-Butanone	0.449	0.491	0.510	0.548	0.509	0.541	0.508	7.1					
Carbon Tetrachloride	0.484	0.443	0.432	0.501	0.502	0.529	0.482	7.8					
cis-1,2-Dichloroethene	0.809	0.737	0.728	0.772	0.731	0.762	0.756	4.1					
Bromochloromethane	0.578	0.577	0.576	0.592	0.556	0.568	0.575	2.1					
Chloroform	1.389	1.312	1.272	1.343	1.272	1.310	1.316	3.4					
1,1,1-Trichloroethane	0.993	1.019	1.077	1.176	1.119	1.173	1.093	7.1					
Methylcyclohexane	0.514	0.503	0.527	0.555	0.550	0.562	0.535	4.5					
Benzene	1.353	1.353	1.332	1.410	1.353	1.353	1.359	1.9					
1,2-Dichloroethane	0.554	0.557	0.545	0.584	0.556	0.564	0.560	2.4					
Trichloroethene	0.356	0.325	0.325	0.349	0.337	0.342	0.339	3.8					
1,2-Dichloropropane	0.368	0.345	0.330	0.357	0.341	0.342	0.347	3.8					
Bromodichloromethane	0.380	0.411	0.436	0.508	0.518	0.538	0.465	13.9					
4-Methyl-2-Pentanone	0.506	0.551	0.547	0.590	0.561	0.582	0.556	5.4					
Toluene	0.908	0.830	0.816	0.877	0.841	0.849	0.853	4					

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
t-1,3-Dichloropropene	0.338	0.357	0.439	0.514	0.526	0.558	0.455	20.3	
cis-1,3-Dichloropropene	0.404	0.441	0.488	0.567	0.558	0.583	0.507	14.6	
1,1,2-Trichloroethane	0.337	0.332	0.335	0.358	0.334	0.340	0.339	2.8	
2-Hexanone	0.323	0.386	0.408	0.439	0.420	0.438	0.403	10.8	
Dibromochloromethane	0.254	0.248	0.306	0.370	0.378	0.398	0.326	20.2	
1,2-Dibromoethane	0.303	0.322	0.344	0.369	0.364	0.370	0.345	8.1	
Tetrachloroethene	0.359	0.354	0.317	0.321	0.312	0.327	0.332	6	
Chlorobenzene	1.130	1.068	1.039	1.088	1.036	1.067	1.071	3.3	
Ethyl Benzene	1.853	1.806	1.816	1.927	1.831	1.875	1.851	2.4	
m/p-Xylenes	0.653	0.660	0.665	0.707	0.683	0.707	0.679	3.5	
o-Xylene	0.686	0.683	0.685	0.703	0.671	0.697	0.687	1.6	
Styrene	1.007	1.019	1.099	1.162	1.148	1.177	1.102	6.7	
Bromoform	0.137	0.173	0.194	0.247	0.269	0.297	0.219	28	
Isopropylbenzene	3.665	3.976	3.920	3.912	3.747	3.747	3.828	3.2	
1,1,2,2-Tetrachloroethane	1.410	1.350	1.332	1.336	1.256	1.293	1.329	3.9	
1,3-Dichlorobenzene	1.519	1.634	1.640	1.683	1.625	1.628	1.621	3.3	
1,4-Dichlorobenzene	1.811	1.640	1.632	1.672	1.621	1.623	1.667	4.4	
1,2-Dichlorobenzene	1.745	1.666	1.668	1.726	1.654	1.643	1.684	2.5	
1,2-Dibromo-3-Chloropropane	0.222	0.226	0.241	0.273	0.279	0.306	0.258	13	
1,2,4-Trichlorobenzene	0.770	0.827	0.891	0.978	1.013	1.058	0.923	12.2	
1,2,3-Trichlorobenzene	0.854	0.885	0.984	1.019	1.055	1.077	0.979	9.3	
1,2-Dichloroethane-d4		0.934	0.778	0.921	0.862	0.888	0.877	7.1	
Dibromofluoromethane		0.353	0.298	0.367	0.360	0.354	0.346	8	
Toluene-d8		1.148	1.010	1.251	1.229	1.203	1.168	8.3	
4-Bromofluorobenzene		0.390	0.351	0.442	0.432	0.426	0.408	9.2	

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