

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: AECO15
Lab Code: CHEM Case No.: Q2263 SAS No.: Q2263 SDG No.: Q2263
Instrument ID: MSVOA_N Calibration Date(s): 06/06/2025 06/06/2025
Heated Purge: (Y/N) N Calibration Time(s): 12:44 14:49
GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF001 = VN086862.D		RRF005 = VN086863.D		RRF020 = VN086864.D			
		RRF050 = VN086865.D		RRF100 = VN086866.D		RRF150 = VN086867.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.467	0.444	0.539	0.501	0.535	0.506	0.499	7.5	
Chloromethane	0.762	0.654	0.645	0.597	0.617	0.587	0.644	9.9	
Vinyl Chloride	0.670	0.670	0.684	0.640	0.673	0.648	0.664	2.5	
Bromomethane		0.375	0.380	0.357	0.379	0.368	0.372	2.6	
Chloroethane	0.460	0.444	0.442	0.408	0.418	0.402	0.429	5.4	
Trichlorofluoromethane	0.882	0.903	0.904	0.834	0.858	0.825	0.868	3.9	
1,1,2-Trichlorotrifluoroethane	0.554	0.567	0.563	0.519	0.546	0.520	0.545	3.8	
1,1-Dichloroethene	0.573	0.593	0.563	0.533	0.550	0.527	0.557	4.4	
Acetone	0.426	0.366	0.366	0.322	0.334	0.316	0.355	11.5	
Carbon Disulfide	1.718	1.622	1.542	1.426	1.496	1.433	1.539	7.4	
Methyl tert-butyl Ether	2.120	2.038	2.051	1.933	2.021	1.926	2.015	3.7	
Methyl Acetate	1.035	1.049	1.078	0.986	1.049	1.011	1.035	3.1	
Methylene Chloride	0.822	0.688	0.643	0.605	0.629	0.601	0.665	12.5	
trans-1,2-Dichloroethene	0.700	0.674	0.621	0.567	0.591	0.561	0.619	9.3	
1,1-Dichloroethane	1.192	1.153	1.156	1.063	1.110	1.043	1.120	5.2	
Cyclohexane		1.303	1.116	1.004	1.030	0.976	1.086	12.2	
2-Butanone	0.604	0.598	0.604	0.551	0.573	0.533	0.577	5.2	
Carbon Tetrachloride	0.453	0.449	0.434	0.409	0.435	0.421	0.433	3.9	
cis-1,2-Dichloroethene	0.786	0.766	0.762	0.699	0.729	0.701	0.740	4.9	
Bromochloromethane	0.579	0.564	0.616	0.466	0.517	0.560	0.550	9.5	
Chloroform	1.235	1.152	1.145	1.061	1.085	1.030	1.118	6.7	
1,1,1-Trichloroethane	1.029	0.995	0.969	0.895	0.925	0.893	0.951	5.9	
Methylcyclohexane	0.633	0.645	0.588	0.570	0.603	0.589	0.605	4.8	
Benzene	1.588	1.501	1.444	1.345	1.414	1.371	1.444	6.2	
1,2-Dichloroethane	0.473	0.456	0.444	0.411	0.430	0.413	0.438	5.6	
Trichloroethene	0.359	0.360	0.341	0.327	0.340	0.328	0.342	4.2	
1,2-Dichloropropane	0.366	0.369	0.354	0.332	0.352	0.335	0.351	4.4	
Bromodichloromethane	0.510	0.484	0.480	0.457	0.483	0.465	0.480	3.8	
4-Methyl-2-Pentanone	0.505	0.549	0.576	0.538	0.562	0.528	0.543	4.6	
Toluene	0.918	0.914	0.885	0.835	0.883	0.859	0.882	3.6	

* 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	0.571	0.526	0.524	0.522	0.548	0.530	0.537	3.6	
cis-1,3-Dichloropropene	0.609	0.577	0.564	0.551	0.584	0.561	0.574	3.6	
1,1,2-Trichloroethane	0.359	0.355	0.342	0.322	0.335	0.323	0.340	4.7	
2-Hexanone	0.312	0.282	0.363	0.368	0.397	0.376	0.350	12.4	
Dibromochloromethane	0.361	0.351	0.358	0.340	0.363	0.349	0.354	2.5	
1,2-Dibromoethane	0.353	0.358	0.354	0.329	0.354	0.341	0.348	3.2	
Tetrachloroethene	0.355	0.331	0.312	0.294	0.313	0.293	0.316	7.5	
Chlorobenzene	1.233	1.135	1.107	1.023	1.089	1.030	1.103	7	
Ethyl Benzene	1.989	1.975	1.907	1.796	1.913	1.816	1.900	4.2	
m/p-Xylenes	0.730	0.751	0.741	0.701	0.736	0.703	0.727	2.8	
o-Xylene	0.714	0.699	0.702	0.674	0.711	0.678	0.696	2.4	
Styrene	1.177	1.193	1.226	1.162	1.229	1.164	1.192	2.5	
Bromoform	0.217	0.266	0.276	0.265	0.286	0.267	0.263	9.1	
Isopropylbenzene	3.864	3.749	3.649	3.426	3.621	3.546	3.643	4.2	
1,1,2,2-Tetrachloroethane	1.292	1.299	1.273	1.178	1.205	1.157	1.234	5	
1,3-Dichlorobenzene	1.763	1.709	1.657	1.554	1.612	1.566	1.644	5	
1,4-Dichlorobenzene	1.820	1.786	1.657	1.572	1.642	1.576	1.676	6.3	
1,2-Dichlorobenzene	1.675	1.651	1.596	1.500	1.557	1.496	1.579	4.8	
1,2-Dibromo-3-Chloropropane	0.339	0.317	0.290	0.272	0.283	0.270	0.295	9.3	
1,2,4-Trichlorobenzene	1.042	1.037	0.991	0.969	1.016	0.994	1.008	2.8	
1,2,3-Trichlorobenzene	1.073	1.009	0.993	0.950	1.000	0.987	1.002	4	
1,2-Dichloroethane-d4		0.732	0.707	0.500	0.656	0.751	0.669	15.1	
Dibromofluoromethane		0.303	0.310	0.219	0.298	0.351	0.296	16.2	
Toluene-d8		1.245	1.203	0.861	1.178	1.377	1.173	16.2	
4-Bromofluorobenzene		0.441	0.446	0.325	0.446	0.521	0.436	16.2	

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