

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GENV01

Lab Code: CHEM Case No.: Q1622 SAS No.: Q1622 SDG No.: Q1622

Instrument ID: MSVOA_N Calibration Date(s): 03/18/2025 03/18/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:44 14:09

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN085996.D		RRF050 = VN085997.D		RRF020 = VN085998.D			
		RRF010 = VN085999.D		RRF005 = VN086000.D		RRF001 = VN086001.D			
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
Dichlorodifluoromethane	0.707	0.643	0.600	0.649	0.697	0.678	0.662	6	
Chloromethane	0.575	0.557	0.514	0.544	0.612	0.683	0.581	10.3	
Vinyl Chloride	0.622	0.592	0.541	0.581	0.634	0.592	0.594	5.5	
Bromomethane	0.388	0.381	0.377	0.411	0.466		0.404	9.2	
Chloroethane	0.355	0.330	0.334	0.378	0.403	0.446	0.375	11.9	
Trichlorofluoromethane	1.059	0.977	0.959	1.035	1.107	1.267	1.067	10.5	
1,1,2-Trichlorotrifluoroethane	0.574	0.515	0.512	0.553	0.590	0.659	0.567	9.7	
1,1-Dichloroethene	0.567	0.516	0.481	0.545	0.550	0.415	0.512	11	
Acetone	0.251	0.194	0.179	0.195	0.213	0.223	0.209	12.4	
Carbon Disulfide	1.649	1.510	1.467	1.610	1.765	2.107	1.685	13.8	
Methyl tert-butyl Ether	1.888	1.691	1.578	1.604	1.638	1.673	1.679	6.6	
Methyl Acetate	0.488	0.469	0.434	0.504	0.542	0.667	0.518	15.8	
Methylene Chloride	0.613	0.565	0.551	0.572	0.639	0.731	0.612	10.9	
trans-1,2-Dichloroethene	0.603	0.534	0.521	0.546	0.564	0.591	0.560	5.8	
1,1-Dichloroethane	1.023	0.949	0.908	0.968	1.032	1.130	1.001	7.8	
Cyclohexane	0.890	0.799	0.765	0.854	0.957		0.853	8.9	
2-Butanone	0.331	0.292	0.277	0.297	0.319	0.296	0.302	6.5	
Carbon Tetrachloride	0.673	0.578	0.557	0.580	0.613	0.624	0.604	6.9	
cis-1,2-Dichloroethene	0.688	0.633	0.591	0.617	0.656	0.632	0.636	5.3	
Bromochloromethane	0.403	0.391	0.398	0.404	0.430	0.521	0.424	11.6	
Chloroform	1.119	1.017	1.011	1.101	1.149	1.245	1.107	7.9	
1,1,1-Trichloroethane	1.093	0.986	0.962	1.025	1.097	1.124	1.048	6.3	
Methylcyclohexane	0.579	0.475	0.419	0.399	0.426	0.438	0.456	14.3	
Benzene	1.610	1.393	1.348	1.386	1.453	1.466	1.443	6.5	
1,2-Dichloroethane	0.538	0.475	0.462	0.491	0.528	0.521	0.503	6.1	
Trichloroethene	0.394	0.346	0.335	0.353	0.380	0.435	0.374	10	
1,2-Dichloropropane	0.366	0.321	0.319	0.321	0.333	0.309	0.328	6.2	
Bromodichloromethane	0.600	0.516	0.506	0.515	0.561	0.537	0.539	6.6	
4-Methyl-2-Pentanone	0.434	0.385	0.368	0.380	0.369	0.287	0.371	12.9	
Toluene	1.074	0.915	0.862	0.878	0.856	0.727	0.885	12.7	

* 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	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
t-1,3-Dichloropropene	0.646	0.539	0.504	0.506	0.501	0.446	0.524	12.8	
cis-1,3-Dichloropropene	0.659	0.568	0.533	0.555	0.537	0.464	0.553	11.5	
1,1,2-Trichloroethane	0.382	0.327	0.316	0.330	0.338	0.335	0.338	6.7	
2-Hexanone	0.334	0.284	0.269	0.270	0.261	0.202	0.270	15.7	
Dibromochloromethane	0.503	0.432	0.408	0.422	0.436	0.416	0.436	7.8	
1,2-Dibromoethane	0.400	0.351	0.326	0.343	0.337	0.325	0.347	8	
Tetrachloroethene	0.407	0.371	0.370	0.390	0.421	0.433	0.399	6.6	
Chlorobenzene	1.229	1.085	1.070	1.116	1.156	1.208	1.144	5.7	
Ethyl Benzene	2.209	1.918	1.744	1.769	1.755	1.586	1.830	11.7	
m/p-Xylenes	0.867	0.756	0.700	0.690	0.660	0.643	0.719	11.4	
o-Xylene	0.831	0.713	0.655	0.645	0.585	0.532	0.660	15.8	
Styrene	1.431	1.219	1.115	1.044	1.032	0.924	1.128	15.8	
Bromoform	0.392	0.345	0.329	0.342	0.355	0.371	0.356	6.4	
Isopropylbenzene	3.863	3.599	3.251	3.470	3.264	3.039	3.414	8.6	
1,1,2,2-Tetrachloroethane	1.076	1.052	1.041	1.191	1.261	1.311	1.155	10	
1,3-Dichlorobenzene	1.842	1.685	1.614	1.749	1.718	1.688	1.716	4.5	
1,4-Dichlorobenzene	1.825	1.667	1.621	1.756	1.907	2.043	1.803	8.7	
1,2-Dichlorobenzene	1.716	1.598	1.522	1.673	1.724	2.004	1.706	9.7	
1,2-Dibromo-3-Chloropropane	0.240	0.221	0.216	0.266	0.250	0.192	0.231	11.5	
1,2,4-Trichlorobenzene	0.952	0.850	0.779	0.815	0.851	0.899	0.858	7.1	
1,2,3-Trichlorobenzene	0.900	0.829	0.772	0.794	0.791	0.798	0.814	5.7	
1,2-Dichloroethane-d4	0.632	0.665	0.669	0.721	0.737		0.685	6.3	
Dibromofluoromethane	0.333	0.334	0.347	0.362	0.368		0.349	4.5	
Toluene-d8	1.309	1.266	1.253	1.289	1.217		1.267	2.8	
4-Bromofluorobenzene	0.514	0.466	0.447	0.440	0.391		0.452	9.8	

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