

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02
Lab Code: CHEM Case No.: Q2061 SAS No.: Q2061 SDG No.: Q2061
Instrument ID: MSVOA_X Calibration Date(s): 05/05/2025 05/05/2025
Heated Purge: (Y/N) N Calibration Time(s): 11:35 16:27
GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF020 = VX046041.D		RRF050 = VX046042.D		RRF100 = VX046043.D			
		RRF150 = VX046044.D		RRF005 = VX046046.D		RRF001 = VX046047.D			
COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF001	RRF	% RSD	
Dichlorodifluoromethane	0.697	0.864	0.859	0.875	0.639	0.658	0.765	14.6	
Chloromethane	0.727	0.775	0.787	0.791	0.679	0.694	0.742	6.6	
Vinyl Chloride	0.660	0.710	0.727	0.755	0.619	0.673	0.691	7.2	
Ethyl Acetate	0.569	0.611	0.609	0.631	0.582	0.586	0.598	3.8	
Bromomethane	0.296	0.326	0.340	0.334	0.305		0.320	5.8	
Chloroethane	0.354	0.378	0.329	0.317	0.368	0.467	0.369	14.4	
Trichlorofluoromethane	1.035	1.068	0.983	0.985	0.990	1.064	1.021	3.9	
1,1,2-Trichlorotrifluoroethane	0.628	0.641	0.629	0.648	0.610	0.633	0.632	2.1	
Tert butyl alcohol	0.122	0.129	0.144	0.146	0.114		0.131	10.4	
1,1-Dichloroethene	0.565	0.601	0.607	0.625	0.567	0.594	0.593	3.9	
Acrolein	0.158	0.152	0.154	0.163	0.117		0.149	12.3	
Acrylonitrile	0.378	0.388	0.381	0.390	0.345	0.363	0.374	4.5	
Acetone	0.361	0.362	0.361	0.370	0.408	0.380	0.374	4.9	
Carbon Disulfide	1.295	1.455	1.522	1.597	1.141	1.423	1.406	11.7	
Methyl tert-butyl Ether	2.044	2.160	2.172	2.239	1.908	1.949	2.079	6.4	
Methyl Acetate	0.814	0.848	0.845	0.875	0.816	1.006	0.867	8.3	
Methylene Chloride	0.689	0.684	0.691	0.691	0.689	0.853	0.716	9.4	
trans-1,2-Dichloroethene	0.573	0.610	0.612	0.622	0.557	0.604	0.596	4.3	
Vinyl Acetate	1.928	2.048	2.082	2.134	1.698	1.660	1.925	10.5	
1,1-Dichloroethane	1.233	1.263	1.263	1.286	1.154	1.116	1.219	5.6	
Cyclohexane	1.090	1.128	1.128	1.150	1.059		1.111	3.3	
2-Butanone	0.540	0.555	0.558	0.569	0.539	0.495	0.543	4.8	
Carbon Tetrachloride	0.528	0.558	0.552	0.577	0.505	0.541	0.544	4.6	
2,2-Dichloropropane	0.910	0.957	1.003	1.039	0.850	0.965	0.954	7	
cis-1,2-Dichloroethene	0.716	0.737	0.738	0.755	0.642	0.719	0.718	5.5	
Bromochloromethane	0.628	0.578	0.595	0.590	0.553	0.576	0.587	4.3	
Chloroform	1.287	1.296	1.277	1.300	1.199	1.265	1.271	3	
1,1,1-Trichloroethane	1.106	1.131	1.155	1.188	1.013	1.015	1.101	6.6	
Methylcyclohexane	0.596	0.641	0.627	0.658	0.587	0.627	0.623	4.3	
1,1-Dichloropropene	0.463	0.495	0.483	0.505	0.462	0.493	0.484	3.7	

* Compounds with required minimum RRF and maximum %RSD values.
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RRF of 1,4-Dioxane = Value should be divide by 1000.

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COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF001	RRF	% RSD				
Benzene	1.426	1.474	1.441	1.477	1.337	1.348	1.417	4.3				
1,2-Dichloroethane	0.632	0.627	0.611	0.625	0.594	0.579	0.612	3.5				
Trichloroethene	0.344	0.355	0.345	0.362	0.315	0.324	0.341	5.3				
1,2-Dichloropropane	0.356	0.371	0.368	0.378	0.324	0.317	0.352	7.4				
Dibromomethane	0.285	0.287	0.280	0.289	0.262	0.263	0.278	4.3				
Bromodichloromethane	0.557	0.577	0.573	0.594	0.498	0.485	0.547	8.2				
4-Methyl-2-Pentanone	0.620	0.634	0.630	0.631	0.555	0.561	0.605	6				
Toluene	0.884	0.898	0.885	0.904	0.838	0.803	0.869	4.5				
t-1,3-Dichloropropene	0.468	0.528	0.555	0.591	0.406	0.371	0.487	17.9				
cis-1,3-Dichloropropene	0.531	0.578	0.602	0.623	0.469	0.423	0.538	14.6				
1,1,2-Trichloroethane	0.349	0.354	0.351	0.356	0.337	0.308	0.343	5.3				
1,3-Dichloropropane	0.618	0.623	0.613	0.627	0.601	0.610	0.615	1.5				
2-Chloroethyl Vinyl ether	0.270	0.307	0.303	0.313	0.247	0.230	0.278	12.4				
2-Hexanone	0.466	0.473	0.477	0.473	0.414	0.385	0.448	8.7				
Dibromochloromethane	0.378	0.400	0.415	0.431	0.326	0.306	0.376	13.3				
1,2-Dibromoethane	0.359	0.373	0.368	0.381	0.333	0.322	0.356	6.5				
Tetrachloroethene	0.390	0.375	0.345	0.344	0.323	0.347	0.354	6.8				
Chlorobenzene	1.093	1.098	1.085	1.114	1.046	1.131	1.094	2.7				
1,1,1,2-Tetrachloroethane	0.365	0.390	0.382	0.395	0.341	0.369	0.374	5.2				
Hexachloroethane	0.551	0.622	0.622	0.680	0.523	0.511	0.585	11.4				
Ethyl Benzene	1.919	2.022	1.979	2.036	1.816	1.803	1.929	5.2				
m/p-Xylenes	0.706	0.740	0.721	0.740	0.678	0.648	0.706	5.2				
o-Xylene	0.688	0.727	0.706	0.726	0.639	0.642	0.688	5.7				
Styrene	1.135	1.219	1.214	1.230	1.012	0.951	1.127	10.6				
Bromoform	0.270	0.304	0.312	0.327	0.236	0.234	0.281	14.2				
Isopropylbenzene	3.843	4.130	3.876	4.156	3.562	3.789	3.893	5.7				
1,1,2,2-Tetrachloroethane	1.315	1.338	1.284	1.345	1.350	1.552	1.364	7				
1,2,3-Trichloropropane	1.151	1.187	1.131	1.181	1.167	1.405	1.204	8.4				
Bromobenzene	0.896	0.928	0.883	0.928	0.862	0.926	0.904	3.1				
n-propylbenzene	4.394	4.854	4.583	4.868	4.186	4.272	4.526	6.4				

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COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF001	RRF	% RSD	
2-Chlorotoluene	2.832	2.994	2.805	2.953	2.748	3.184	2.919	5.5	
1,3,5-Trimethylbenzene	3.275	3.488	3.255	3.405	3.053	3.036	3.252	5.6	
4-Chlorotoluene	3.196	3.430	3.255	3.379	2.939	3.226	3.238	5.3	
tert-Butylbenzene	3.115	3.435	3.255	3.411	3.098	3.341	3.276	4.4	
1,2,4-Trimethylbenzene	3.274	3.522	3.335	3.444	3.034	3.150	3.293	5.5	
sec-Butylbenzene	3.937	4.282	4.095	4.343	3.767	3.708	4.022	6.6	
p-Isopropyltoluene	3.206	3.555	3.450	3.599	3.084	3.025	3.320	7.4	
1,3-Dichlorobenzene	1.633	1.701	1.656	1.730	1.558	1.619	1.649	3.7	
1,4-Dichlorobenzene	1.629	1.693	1.639	1.722	1.606	1.817	1.684	4.6	
n-Butylbenzene	2.748	3.147	3.139	3.346	2.650	2.443	2.912	12	
1,2-Dichlorobenzene	1.613	1.696	1.634	1.702	1.577	1.710	1.655	3.3	
1,2-Dibromo-3-Chloropropane	0.299	0.322	0.329	0.356	0.248	0.259	0.302	13.9	
1,2,4-Trichlorobenzene	0.861	0.981	1.035	1.123	0.842	0.862	0.951	12	
Hexachlorobutadiene	0.394	0.427	0.418	0.445	0.414	0.393	0.415	4.8	
Naphthalene	3.204	3.613	3.690	3.984	2.929	3.499	3.487	10.7	
1,2,3-Trichlorobenzene	0.921	1.019	1.051	1.107	0.846	0.941	0.981	9.7	
1,2-Dichloroethane-d4	0.953	0.910	0.930	0.932	0.935		0.932	1.6	
Dibromofluoromethane	0.359	0.355	0.364	0.368	0.354		0.360	1.7	
Toluene-d8	1.246	1.223	1.266	1.275	1.221		1.246	2	
4-Bromofluorobenzene	0.455	0.470	0.500	0.500	0.464		0.478	4.4	

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