

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GARD04
 Lab Code: CHEM Case No.: Q2163 SAS No.: Q2163 SDG No.: Q2163
 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	
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	
1,1-Dichloroethene	0.565	0.601	0.607	0.625	0.567	0.594	0.593	3.9	
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	
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	
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	
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	
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	

* 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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	RRF150 = VX046044.D		RRF005 = VX046046.D		RRF001 = VX046047.D			
COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF001	RRF	% RSD
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
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
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
1,3-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
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
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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