

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GENV01
 Lab Code: CHEM Case No.: Q1355 SAS No.: Q1355 SDG No.: Q1355
 Instrument ID: MSVOA_X Calibration Date(s): 02/10/2025 02/10/2025
 Heated Purge: (Y/N) N Calibration Time(s): 10:25 12:28
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX044868.D		RRF005 = VX044869.D		RRF020 = VX044870.D			
		RRF050 = VX044871.D		RRF100 = VX044872.D		RRF150 = VX044873.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.723	0.669	0.716	0.700	0.706	0.693	0.701	2.7	
Chloromethane	0.958	0.860	0.862	0.843	0.805	0.793	0.854	6.9	
Vinyl Chloride	0.839	0.846	0.847	0.808	0.807	0.814	0.827	2.3	
Bromomethane		0.248	0.252	0.249	0.242	0.246	0.247	1.4	
Chloroethane	0.500	0.288	0.280	0.341	0.249	0.181	0.307	35.4	
Trichlorofluoromethane	1.062	1.066	1.096	1.029	1.013	1.008	1.046	3.3	
1,1,2-Trichlorotrifluoroethane	0.583	0.647	0.668	0.626	0.631	0.637	0.632	4.5	
Tert butyl alcohol		0.148	0.138	0.136	0.128	0.129	0.136	5.9	
1,1-Dichloroethene	0.647	0.639	0.661	0.630	0.632	0.657	0.644	2	
Acetone	0.305	0.292	0.298	0.293	0.285	0.292	0.294	2.3	
Carbon Disulfide	1.689	1.732	1.786	1.762	1.789	1.846	1.767	3	
Methyl tert-butyl Ether	1.941	2.065	2.130	2.046	2.011	2.110	2.050	3.4	
Methyl Acetate	0.882	0.901	0.926	0.946	0.922	0.995	0.928	4.2	
Methylene Chloride	0.747	0.717	0.741	0.704	0.695	0.720	0.721	2.8	
trans-1,2-Dichloroethene	0.608	0.622	0.657	0.640	0.633	0.644	0.634	2.7	
1,1-Dichloroethane	1.155	1.257	1.292	1.227	1.209	1.257	1.233	3.9	
Cyclohexane		1.154	1.174	1.121	1.107	1.127	1.137	2.4	
2-Butanone	0.422	0.472	0.504	0.506	0.477	0.487	0.478	6.4	
Carbon Tetrachloride	0.457	0.466	0.478	0.453	0.445	0.459	0.460	2.4	
cis-1,2-Dichloroethene	0.680	0.783	0.812	0.758	0.758	0.779	0.762	5.9	
Bromochloromethane	0.634	0.579	0.607	0.584	0.572	0.579	0.593	4	
Chloroform	1.167	1.209	1.268	1.169	1.153	1.208	1.196	3.5	
1,1,1-Trichloroethane	1.014	1.003	1.051	1.005	0.984	1.028	1.014	2.3	
Methylcyclohexane	0.509	0.571	0.667	0.622	0.634	0.635	0.606	9.4	
Benzene	1.370	1.488	1.577	1.470	1.429	1.453	1.465	4.7	
1,2-Dichloroethane	0.417	0.465	0.502	0.472	0.462	0.482	0.467	6.1	
Trichloroethene	0.293	0.340	0.367	0.335	0.332	0.343	0.335	7.2	
1,2-Dichloropropane	0.343	0.354	0.389	0.367	0.360	0.372	0.364	4.3	
Bromodichloromethane	0.428	0.481	0.514	0.500	0.500	0.513	0.489	6.6	
4-Methyl-2-Pentanone	0.439	0.514	0.562	0.554	0.506	0.498	0.512	8.6	

* 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	
Toluene	0.776	0.872	0.957	0.898	0.866	0.864	0.872	6.7	
t-1,3-Dichloropropene	0.417	0.451	0.518	0.514	0.528	0.543	0.495	10	
cis-1,3-Dichloropropene	0.452	0.511	0.587	0.577	0.587	0.599	0.552	10.5	
1,1,2-Trichloroethane	0.307	0.342	0.362	0.341	0.331	0.329	0.335	5.4	
2-Hexanone	0.313	0.360	0.406	0.404	0.369	0.362	0.369	9.3	
Dibromochloromethane	0.317	0.342	0.381	0.373	0.368	0.370	0.359	6.7	
1,2-Dibromoethane	0.302	0.330	0.367	0.350	0.345	0.345	0.340	6.5	
Tetrachloroethene	0.306	0.311	0.343	0.310	0.307	0.314	0.315	4.4	
Chlorobenzene	0.969	1.093	1.140	1.096	1.071	1.076	1.074	5.3	
Ethyl Benzene	1.690	1.873	2.021	1.935	1.923	1.929	1.895	5.9	
m/p-Xylenes	0.616	0.700	0.754	0.724	0.706	0.694	0.699	6.6	
o-Xylene	0.661	0.721	0.747	0.707	0.691	0.681	0.701	4.4	
Styrene	0.909	1.124	1.249	1.199	1.161	1.139	1.130	10.4	
Bromoform	0.186	0.247	0.272	0.280	0.276	0.287	0.258	14.7	
Isopropylbenzene	3.735	4.012	4.347	4.045	3.940	4.076	4.026	4.9	
1,1,2,2-Tetrachloroethane	1.429	1.403	1.438	1.366	1.305	1.360	1.383	3.6	
1,3-Dichlorobenzene	1.616	1.669	1.741	1.679	1.663	1.703	1.678	2.5	
1,4-Dichlorobenzene	1.662	1.712	1.762	1.686	1.660	1.701	1.697	2.2	
1,2-Dichlorobenzene	1.512	1.713	1.763	1.666	1.604	1.639	1.650	5.3	
1,2-Dibromo-3-Chloropropane	0.202	0.236	0.268	0.258	0.261	0.289	0.252	11.9	
1,2,4-Trichlorobenzene	0.860	0.934	1.013	1.013	1.057	1.112	0.998	9	
1,2,3-Trichlorobenzene	0.858	0.952	1.042	1.031	1.043	1.109	1.006	8.7	
1,2-Dichloroethane-d4		0.764	0.718	0.723	0.707	0.747	0.732	3.2	
Dibromofluoromethane		0.335	0.322	0.320	0.320	0.328	0.325	2	
Toluene-d8		1.239	1.249	1.239	1.208	1.212	1.229	1.5	
4-Bromofluorobenzene		0.404	0.410	0.431	0.415	0.412	0.414	2.5	

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