284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG No.: Q1872

Instrument ID: MSVOA_Y Calibration Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Calibration Time(s): 13:39 16:15

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

LAB FILE ID: RRF005 = VY021953.D RRF010 = VY021954.D RRF020 = VY021955.D
RRF050 = VY021956.D RRF100 = VY021957.D RRF150 = VY021958.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.469	0.477	0.405	0.393	0.408	0.405	0.426	8.7
Chloromethane	0.704	0.670	0.636	0.602	0.529	0.498	0.607	13.2
Vinyl Chloride	0.829	0.830	0.758	0.730	0.680	0.647	0.745	10.1
Ethyl Acetate	0.166	0.161	0.163	0.161	0.153	0.151	0.159	3.7
Isopropyl Acetate	0.301	0.293	0.314	0.312	0.309	0.308	0.306	2.5
Bromomethane	0.782	0.697	0.674	0.596	0.554	0.550	0.642	14.3
Chloroethane	0.589	0.550	0.524	0.494	0.460	0.429	0.508	11.6
Tetrahydrofuran	0.067	0.065	0.072	0.073	0.066	0.067	0.068	4.9
Trichlorofluoromethane	1.048	1.075	0.987	0.960	0.921	0.907	0.983	6.9
1,1,2-Trichlorotrifluoroethane	0.604	0.591	0.530	0.489	0.497	0.488	0.533	9.8
Tert butyl alcohol	0.027	0.024	0.027	0.026	0.023	0.025	0.025	6.4
Diethyl Ether	0.283	0.266	0.253	0.247	0.246	0.240	0.256	6.2
1,1-Dichloroethene	0.525	0.532	0.483	0.471	0.487	0.484	0.497	5
Acrolein	0.053	0.045	0.051	0.042	0.040	0.042	0.046	11.6
Acrylonitrile	0.103	0.090	0.099	0.093	0.088	0.088	0.094	6.6
Acetone	0.092	0.084	0.066	0.063	0.058	0.057	0.070	20.7
Carbon Disulfide	1.736	1.737	1.569	1.493	1.516	1.459	1.585	7.7
Methyl tert-butyl Ether	1.098	1.067	1.102	1.133	1.141	1.134	1.113	2.6
Methyl Acetate	0.214	0.200	0.231	0.223	0.208	0.219	0.216	5.2
Methylene Chloride	0.759	0.625	0.574	0.533	0.518	0.494	0.584	16.7
trans-1,2-Dichloroethene	0.619	0.578	0.533	0.532	0.546	0.532	0.557	6.3
Vinyl Acetate	0.657	0.684	0.700	0.716	0.713	0.694	0.694	3.1
1,1-Dichloroethane	0.987	0.943	0.893	0.853	0.855	0.826	0.893	6.9
Cyclohexane	0.836	0.857	0.738	0.708	0.730	0.711	0.763	8.6
2-Butanone	0.111	0.107	0.108	0.106	0.099	0.100	0.105	4.5
Carbon Tetrachloride	0.540	0.563	0.512	0.507	0.535	0.523	0.530	3.9
2,2-Dichloropropane	0.841	0.830	0.763	0.743	0.770	0.748	0.782	5.4
cis-1,2-Dichloroethene	0.626	0.638	0.604	0.612	0.633	0.621	0.622	2.1
Bromochloromethane	0.376	0.362	0.365	0.343	0.321	0.314	0.347	7.2
Chloroform	1.084	1.046	0.974	0.956	0.958	0.925	0.990	6.2

* Compounds with required minimum RRF and maximum %RSD values.
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Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG No.: Q1872

Instrument ID: MSVOA_Y Calibration Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Calibration Time(s): 13:39 16:15

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

LAB FILE ID: RRF005 = VY021953.D RRF010 = VY021954.D RRF020 = VY021955.D
RRF050 = VY021956.D RRF100 = VY021957.D RRF150 = VY021958.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
1,1,1-Trichloroethane	0.972	0.944	0.896	0.853	0.865	0.846	0.896	5.8
Methylcyclohexane	0.525	0.569	0.519	0.549	0.600	0.589	0.558	6
1,1-Dichloropropene	0.455	0.470	0.424	0.425	0.450	0.437	0.444	4.1
Benzene	1.423	1.439	1.351	1.337	1.415	1.358	1.387	3.1
1,2-Dichloroethane	0.347	0.367	0.350	0.335	0.336	0.325	0.343	4.3
Trichloroethene	0.402	0.405	0.369	0.367	0.387	0.375	0.384	4.3
1,2-Dichloropropane	0.320	0.317	0.302	0.300	0.308	0.294	0.307	3.4
Dibromomethane	0.202	0.193	0.192	0.187	0.191	0.187	0.192	3
Bromodichloromethane	0.479	0.504	0.464	0.470	0.490	0.471	0.480	3.1
4-Methyl-2-Pentanone	0.144	0.149	0.167	0.172	0.166	0.165	0.160	6.9
Methyl methacrylate	0.120	0.130	0.147	0.150	0.150	0.151	0.141	9.2
Toluene	0.838	0.915	0.875	0.894	0.952	0.913	0.898	4.4
t-1,3-Dichloropropene	0.383	0.408	0.399	0.417	0.437	0.425	0.411	4.7
cis-1,3-Dichloropropene	0.466	0.488	0.483	0.484	0.514	0.500	0.489	3.3
1,1,2-Trichloroethane	0.250	0.261	0.261	0.256	0.258	0.252	0.256	1.8
1,3-Dichloropropane	0.413	0.420	0.405	0.409	0.417	0.404	0.411	1.6
2-Chloroethyl Vinyl ether	0.118	0.121	0.146	0.161	0.154	0.161	0.143	13.4
2-Hexanone	0.093	0.096	0.109	0.115	0.111	0.111	0.106	8.5
Dibromochloromethane	0.345	0.355	0.354	0.352	0.367	0.357	0.355	2
1,2-Dibromoethane	0.238	0.243	0.243	0.241	0.247	0.240	0.242	1.3
Tetrachloroethene	0.500	0.516	0.462	0.455	0.466	0.430	0.472	6.6
Chlorobenzene	1.188	1.152	1.055	1.083	1.139	1.092	1.118	4.5
1,1,1,2-Tetrachloroethane	0.401	0.409	0.376	0.386	0.401	0.388	0.394	3.1
Hexachloroethane	0.715	0.710	0.614	0.638	0.689	0.677	0.674	6
Ethyl Benzene	1.693	1.840	1.718	1.835	1.990	1.898	1.829	6.1
m/p-Xylenes	0.664	0.720	0.699	0.734	0.797	0.754	0.728	6.3
o-Xylene	0.599	0.639	0.635	0.689	0.747	0.716	0.671	8.3
Styrene	0.950	1.080	1.078	1.169	1.272	1.209	1.126	10.2
Bromoform	0.234	0.221	0.224	0.229	0.236	0.229	0.229	2.5
Isopropylbenzene	3.061	3.316	3.102	3.325	3.639	3.599	3.341	7.2

* Compounds with required minimum RRF and maximum %RSD values.
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COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
1,1,2,2-Tetrachloroethane	0.601	0.562	0.555	0.548	0.555	0.558	0.563	3.4
1,2,3-Trichloropropane	0.498	0.445	0.418	0.405	0.408	0.397	0.428	8.8
Bromobenzene	0.855	0.831	0.780	0.828	0.890	0.881	0.844	4.8
n-propylbenzene	3.708	3.996	3.778	3.977	4.258	4.152	3.978	5.3
2-Chlorotoluene	2.253	2.343	2.179	2.280	2.435	2.391	2.314	4.1
1,3,5-Trimethylbenzene	2.467	2.757	2.614	2.800	2.978	2.898	2.752	6.8
4-Chlorotoluene	2.313	2.501	2.270	2.380	2.521	2.445	2.405	4.2
tert-Butylbenzene	2.246	2.382	2.263	2.494	2.725	2.701	2.469	8.5
1,2,4-Trimethylbenzene	2.415	2.717	2.631	2.784	3.027	2.945	2.753	8
sec-Butylbenzene	3.254	3.724	3.409	3.602	3.898	3.786	3.612	6.7
p-Isopropyltoluene	2.717	3.016	2.869	3.094	3.386	3.321	3.067	8.4
1,3-Dichlorobenzene	1.730	1.784	1.595	1.647	1.789	1.742	1.714	4.5
1,4-Dichlorobenzene	1.821	1.726	1.605	1.620	1.733	1.682	1.698	4.7
n-Butylbenzene	2.477	2.790	2.545	2.742	2.976	2.919	2.742	7.2
1,2-Dichlorobenzene	1.523	1.522	1.434	1.452	1.537	1.505	1.495	2.8
1,2-Dibromo-3-Chloropropane	0.097	0.091	0.094	0.084	0.085	0.087	0.090	5.9
1,2,4-Trichlorobenzene	0.747	0.800	0.785	0.823	0.970	0.959	0.847	11.1
Hexachlorobutadiene	0.522	0.545	0.483	0.480	0.555	0.544	0.521	6.3
Naphthalene	1.186	1.113	1.284	1.436	1.690	1.738	1.408	18.6
1,2,3-Trichlorobenzene	0.671	0.673	0.684	0.707	0.829	0.825	0.731	10.2
1,2-Dichloroethane-d4	0.525	0.477	0.459	0.466	0.418	0.427	0.462	8.3
Dibromofluoromethane	0.335	0.341	0.330	0.330	0.319	0.327	0.330	2.3
Toluene-d8	1.220	1.260	1.211	1.276	1.244	1.261	1.245	2
4-Bromofluorobenzene	0.408	0.429	0.401	0.426	0.423	0.428	0.419	2.8
N-amyl acetate	0.528	0.530	0.553	0.591	0.615	0.626	0.574	7.5
Methyl Iodide	0.573	0.619	0.604	0.629	0.651	0.628	0.617	4.3
Allyl chloride	0.620	0.607	0.558	0.555	0.575	0.557	0.579	4.8
trans-1,4-Dichloro-2-butene	0.185	0.174	0.170	0.177	0.181	0.181	0.178	2.9
Methacrylonitrile	0.076	0.086	0.104	0.092	0.082	0.084	0.087	11.2
Diisopropyl ether	1.282	1.292	1.316	1.290	1.300	1.248	1.288	1.8

* Compounds with required minimum RRF and maximum %RSD values.
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COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
1,4-Dioxane	1.839	2.045	2.213	2.031	2.084	2.067	2.047	5.9

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