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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q2437 SAS No.: Q2437 SDG No.: Q2437

Instrument ID: MSVOA_N Calibration Date(s): 06/26/2025 06/26/2025

Heated Purge: (Y/N) N Calibration Time(s): 16:34 18:39

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

LAB FILE ID: RRF001 = VN087198.D RRF005 = VN087199.D RRF020 = VN087200.D
RRF050 = VN087201.D RRF100 = VN087202.D RRF150 = VN087203.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.557	0.753	0.622	0.618	0.612	0.598	0.627	10.6
Chloromethane	0.536	0.741	0.619	0.594	0.589	0.592	0.612	11.2
Vinyl Chloride	0.583	0.746	0.677	0.641	0.646	0.673	0.661	8.1
Ethyl Acetate	0.464	0.464	0.801	0.634	0.598	0.586	0.591	21.1
Bromomethane		0.405	0.369	0.314	0.316	0.369	0.355	11
Chloroethane	0.316	0.428	0.356	0.341	0.312	0.319	0.345	12.8
Trichlorofluoromethane	0.617	0.987	0.888	0.738	0.740	0.755	0.787	16.6
1,1,2-Trichlorotrifluoroethane	0.383	0.778	0.672	0.596	0.527	0.538	0.582	23.2
Tert butyl alcohol		0.186	0.167	0.161	0.132	0.146	0.159	13.1
1,1-Dichloroethene	0.419	0.766	0.647	0.601	0.538	0.548	0.587	19.9
Acrolein		0.151	0.113	0.134	0.116	0.139	0.131	12.1
Acrylonitrile	0.277	0.533	0.463	0.436	0.399	0.405	0.419	20.2
Acetone	0.229	0.468	0.396	0.357	0.328	0.319	0.350	22.9
Carbon Disulfide	1.197	2.327	2.019	1.794	1.593	1.587	1.753	22.3
Methyl tert-butyl Ether	1.321	2.476	2.247	2.087	1.949	2.043	2.020	19.3
Methyl Acetate	0.517	1.074	0.943	0.883	0.848	0.859	0.854	21.7
Methylene Chloride	0.520	0.904	0.754	0.671	0.554	0.632	0.673	20.9
trans-1,2-Dichloroethene	0.486	0.831	0.720	0.648	0.594	0.624	0.651	18
Vinyl Acetate	1.454	2.132	2.074	1.919	1.870	1.758	1.868	13.1
1,1-Dichloroethane	1.019	1.469	1.337	1.229	1.196	1.151	1.234	12.6
Cyclohexane		1.190	1.143	1.125	1.093	1.020	1.114	5.7
2-Butanone	0.489	0.469	0.629	0.585	0.566	0.535	0.546	11
Carbon Tetrachloride	0.404	0.405	0.560	0.482	0.456	0.459	0.461	12.5
2,2-Dichloropropane	0.897	0.961	1.103	1.003	0.981	0.938	0.981	7.2
cis-1,2-Dichloroethene	0.692	0.714	0.845	0.776	0.762	0.748	0.756	7
Bromochloromethane	0.494	0.501	0.601	0.587	0.565	0.505	0.542	8.8
Chloroform	1.107	1.146	1.318	1.183	1.135	1.093	1.164	7.1
1,1,1-Trichloroethane	1.005	1.005	1.071	1.001	0.977	0.940	1.000	4.3
Methylcyclohexane	0.491	0.554	0.717	0.569	0.569	0.566	0.578	12.9
1,1-Dichloropropene	0.435	0.383	0.566	0.499	0.477	0.480	0.473	12.9

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

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RRF050 = VN087201.D RRF100 = VN087202.D RRF150 = VN087203.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Benzene	1.393	1.205	1.710	1.512	1.485	1.474	1.463	11.3
1,2-Dichloroethane	0.468	0.445	0.503	0.502	0.471	0.466	0.476	4.8
Trichloroethene	0.311	0.359	0.425	0.348	0.334	0.325	0.350	11.5
1,2-Dichloropropane	0.319	0.390	0.479	0.373	0.354	0.348	0.377	14.7
Dibromomethane	0.219	0.268	0.328	0.253	0.248	0.217	0.256	15.9
Bromodichloromethane	0.458	0.537	0.657	0.493	0.500	0.434	0.513	15.4
4-Methyl-2-Pentanone	0.359	0.536	0.733	0.612	0.572	0.550	0.561	21.7
Toluene	0.758	0.899	1.179	0.964	0.922	0.891	0.935	14.7
t-1,3-Dichloropropene	0.436	0.557	0.714	0.593	0.570	0.564	0.572	15.5
cis-1,3-Dichloropropene	0.494	0.597	0.772	0.618	0.606	0.567	0.609	15.1
1,1,2-Trichloroethane	0.297	0.349	0.450	0.360	0.341	0.326	0.354	14.7
1,3-Dichloropropane	0.505	0.625	0.788	0.639	0.608	0.584	0.625	14.9
2-Chloroethyl Vinyl ether	0.122	0.290	0.334	0.326	0.338	0.310	0.286	28.8
2-Hexanone	0.316	0.384	0.433	0.404	0.395	0.392	0.387	10
Dibromochloromethane	0.316	0.377	0.477	0.391	0.377	0.370	0.385	13.5
1,2-Dibromoethane	0.307	0.360	0.469	0.383	0.362	0.363	0.374	14.2
Tetrachloroethene	0.284	0.316	0.316	0.309	0.315	0.296	0.306	4.3
Chlorobenzene	1.057	1.148	1.156	1.111	1.098	1.085	1.109	3.4
1,1,1,2-Tetrachloroethane	0.328	0.360	0.372	0.358	0.355	0.352	0.354	4.1
Hexachloroethane	0.531	0.542	0.574	0.560	0.583	0.578	0.561	3.7
Ethyl Benzene	1.577	1.825	1.933	1.939	1.916	1.908	1.850	7.5
m/p-Xylenes	0.600	0.667	0.752	0.744	0.749	0.734	0.708	8.7
o-Xylene	0.549	0.489	0.693	0.712	0.713	0.704	0.643	15.3
Styrene	0.899	0.884	1.200	1.225	1.219	1.199	1.104	15
Bromoform	0.225	0.256	0.273	0.279	0.274	0.271	0.263	7.6
Isopropylbenzene	2.874	2.895	3.671	3.539	3.735	3.595	3.385	11.6
1,1,2,2-Tetrachloroethane	1.163	1.210	1.308	1.212	1.237	1.185	1.219	4.1
1,2,3-Trichloropropane	1.070	1.061	1.074	1.162	1.200	1.127	1.116	5.1
Bromobenzene	0.713	0.773	0.879	0.831	0.874	0.865	0.823	8.1
n-propylbenzene	3.478	3.729	4.495	4.341	4.537	4.434	4.169	10.8

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COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
2-Chlorotoluene	2.676	2.339	2.711	2.567	2.664	2.615	2.595	5.2
1,3,5-Trimethylbenzene	2.244	2.513	3.023	2.936	3.072	2.977	2.794	12
4-Chlorotoluene	2.214	2.421	2.784	2.642	2.745	2.719	2.587	8.7
tert-Butylbenzene	1.913	2.245	2.550	2.522	2.597	2.573	2.400	11.3
1,2,4-Trimethylbenzene	2.245	2.624	3.053	2.975	3.095	3.019	2.835	11.8
sec-Butylbenzene	2.790	3.399	3.839	3.691	3.789	3.710	3.536	11.2
p-Isopropyltoluene	2.217	2.725	3.129	3.058	3.174	3.098	2.900	12.8
1,3-Dichlorobenzene	1.570	1.632	1.749	1.632	1.692	1.657	1.655	3.7
1,4-Dichlorobenzene	1.683	1.771	1.723	1.678	1.700	1.658	1.702	2.4
n-Butylbenzene	2.279	2.603	2.918	2.793	2.809	2.766	2.695	8.4
1,2-Dichlorobenzene	1.520	1.512	1.614	1.558	1.580	1.570	1.559	2.4
1,2-Dibromo-3-Chloropropane	0.257	0.276	0.285	0.283	0.289	0.280	0.278	4.1
1,2,4-Trichlorobenzene	0.721	0.855	0.903	0.894	0.914	0.922	0.868	8.7
Hexachlorobutadiene	0.244	0.295	0.282	0.272	0.270	0.280	0.274	6.2
Naphthalene	2.561	2.930	3.399	3.471	3.690	3.705	3.293	13.8
1,2,3-Trichlorobenzene	0.763	0.848	0.870	0.875	0.884	0.902	0.857	5.8
1,2-Dichloroethane-d4		0.720	0.715	0.717	0.748	0.698	0.720	2.5
Dibromofluoromethane		0.276	0.380	0.318	0.324	0.319	0.323	11.4
Toluene-d8		1.214	1.587	1.303	1.322	1.258	1.337	10.9
4-Bromofluorobenzene		0.411	0.545	0.456	0.457	0.450	0.464	10.6

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