284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1774 SAS No.: Q1774 SDG No.: Q1774

Instrument ID: MSVOA_N Calibration Date(s): 04/11/2025 04/11/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:04 12:40

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

LAB FILE ID: RRF100 = VN086242.D RRF050 = VN086244.D RRF020 = VN086245.D
RRF005 = VN086246.D RRF = RRF =

COMPOUND	RRF100	RRF050	RRF020	RRF005	RRF	RRF	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	2.460	2.758	2.325	2.072			2.404	11.9
Chloromethane	3.236	3.617	3.094	3.342			3.322	6.7
Vinyl Chloride	3.116	3.535	3.007	3.000			3.164	8
Bromomethane	1.382	1.638	1.475	1.819			1.578	12.2
Chloroethane	1.887	2.187	1.860	2.059			1.998	7.7
Trichlorofluoromethane	3.329	3.883	3.207	3.311			3.433	8.9
1,1,2-Trichlorotrifluoroethane	2.040	2.381	1.998	2.048			2.117	8.4
1,1-Dichloroethene	2.111	2.464	2.145	2.418			2.284	8
Acrolein	0.387	0.329	0.270	0.481			0.367	24.6
Acrylonitrile	1.263	1.506	1.282	1.397			1.362	8.3
Acetone	0.300	0.389	0.329	0.363			0.345	11.3
Carbon Disulfide	6.053	6.710	6.274	7.165			6.550	7.5
Methyl tert-Butyl Ether	7.709	9.105	7.691	8.471			8.244	8.2
Methyl Acetate	2.942	3.736	2.970	3.256			3.226	11.4
Methylene Chloride	2.407	2.766	2.387	2.858			2.605	9.3
trans-1,2-Dichloroethene	2.231	2.557	2.221	2.616			2.406	8.7
1,1-Dichloroethane	4.380	5.082	4.345	4.460			4.567	7.6
Cyclohexane	0.686	0.784	0.660	0.690			0.705	7.7
2-Butanone	0.278	0.336	0.290	0.287			0.298	8.8
Carbon Tetrachloride	0.484	0.562	0.472	0.458			0.494	9.4
2,2-Dichloropropane	0.651	0.733	0.638	0.623			0.662	7.4
cis-1,2-Dichloroethene	2.674	3.101	2.690	3.000			2.866	7.6
Chloroform	4.120	4.832	4.093	4.374			4.355	7.9
1,1,1-Trichloroethane	0.587	0.679	0.586	0.621			0.618	7.1
Methylcyclohexane	0.656	0.714	0.616	0.650			0.659	6.2
1,1-Dichloropropene	0.527	0.592	0.514	0.516			0.537	6.9
Benzene	1.669	1.880	1.633	1.657			1.710	6.7
1,2-Dichloroethane	0.521	0.591	0.512	0.516			0.535	7
Trichloroethene	0.403	0.463	0.396	0.387			0.413	8.3
1,2-Dichloropropane	0.420	0.475	0.405	0.403			0.425	7.9

* 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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COMPOUND	RRF100	RRF050	RRF020	RRF005	RRF	RRF	$\overline{RRF}$	% RSD
Dibromomethane	0.261	0.301	0.260	0.277			0.275	6.9
Bromodichloromethane	0.557	0.636	0.565	0.603			0.590	6.2
4-Methyl-2-Pentanone	0.627	0.758	0.671	0.667			0.681	8.1
Toluene	1.908	2.219	1.941	1.981			2.012	7
t-1,3-Dichloropropene	0.650	0.745	0.633	0.641			0.667	7.8
cis-1,3-Dichloropropene	0.696	0.782	0.677	0.670			0.706	7.3
1,1,2-Trichloroethane	0.364	0.420	0.372	0.385			0.385	6.4
1,3-Dichloropropane	0.664	0.764	0.648	0.671			0.687	7.6
2-Hexanone	0.464	0.571	0.497	0.496			0.507	8.9
Dibromochloromethane	0.407	0.469	0.404	0.406			0.422	7.5
1,2-Dibromoethane	0.371	0.429	0.370	0.386			0.389	7.1
Tetrachloroethene	0.432	0.501	0.424	0.415			0.443	8.9
Chlorobenzene	1.156	1.357	1.179	1.224			1.229	7.3
1,1,1,2-Tetrachloroethane	0.384	0.455	0.390	0.393			0.406	8.1
Hexachloroethane	0.274	0.319	0.265	0.265			0.281	9.3
Ethyl Benzene	2.099	2.496	2.140	2.192			2.232	8.1
m/p-Xylenes	0.795	0.939	0.789	0.796			0.830	8.8
o-Xylene	0.777	0.921	0.779	0.787			0.816	8.6
Styrene	1.315	1.563	1.293	1.334			1.376	9.1
Bromoform	0.262	0.312	0.264	0.265			0.276	8.7
Isopropylbenzene	1.910	2.274	1.917	1.947			2.012	8.7
1,1,2,2-Tetrachloroethane	0.500	0.608	0.558	0.626			0.573	9.9
1,2,3-Trichloropropane	0.550	0.662	0.566	0.606			0.596	8.4
Bromobenzene	0.422	0.505	0.426	0.431			0.446	8.8
n-propylbenzene	2.311	2.708	2.229	2.256			2.376	9.4
2-Chlorotoluene	1.403	1.687	1.412	1.472			1.494	8.9
1,3,5-Trimethylbenzene	1.586	1.865	1.574	1.587			1.653	8.5
4-Chlorotoluene	1.420	1.694	1.383	1.470			1.492	9.4
tert-butylbenzene	1.332	1.584	1.349	1.457			1.430	8.1
1,2,4-Trimethylbenzene	1.607	1.912	1.600	1.586			1.676	9.4

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COMPOUND	RRF100	RRF050	RRF020	RRF005	RRF	RRF	$\overline{RRF}$	% RSD
sec-Butylbenzene	1.924	2.234	1.909	1.915			1.995	8
p-Isopropyltoluene	1.621	1.891	1.584	1.562			1.664	9.2
1,3-Dichlorobenzene	0.785	0.958	0.773	0.798			0.829	10.5
1,4-Dichlorobenzene	0.785	0.950	0.777	0.813			0.831	9.7
n-Butylbenzene	1.490	1.679	1.420	1.416			1.502	8.2
1,2-Dichlorobenzene	0.761	0.943	0.778	0.791			0.818	10.3
1,2-Dibromo-3-Chloropropane	0.116	0.148	0.128	0.129			0.130	10.3
1,2,4-Trichlorobenzene	0.371	0.439	0.402	0.380			0.398	7.5
Hexachlorobutadiene	0.151	0.176	0.167	0.194			0.172	10.4
Naphthalene	1.396	1.756	1.548	1.578			1.569	9.4
1,2,3-Trichlorobenzene	0.371	0.439	0.402	0.380			0.398	7.5
1,2-Dichloroethane-d4	2.882	2.916	2.904	3.003			2.926	1.8
Toluene-d8	1.673	1.674	1.718	1.710			1.694	1.4
4-Bromofluorobenzene	0.600	0.607	0.594	0.589			0.597	1.3
Methyl Iodide	2.474	2.976	2.463	2.589			2.626	9.2
Methyl methacrylate	0.468	0.558	0.471	0.467			0.491	9

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