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

Lab Name: CHEMTECH Contract: GENV01

Lab Code: CHEM Case No.: Q1939 SAS No.: Q1939 SDG No.: Q1939

Instrument ID: MSVOA_N Calibration Date(s): 04/15/2025 04/15/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:29 14:29

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

LAB FILE ID: RRF001 = VN086277.D RRF005 = VN086278.D RRF010 = VN086279.D
RRF020 = VN086280.D RRF050 = VN086281.D RRF100 = VN086282.D

COMPOUND	RRF001	RRF005	RRF010	RRF020	RRF050	RRF100	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.606	0.561	0.582	0.624	0.591	0.593	0.593	3.6
Chloromethane	1.113	0.904	0.783	0.819	0.754	0.795	0.861	15.5
Vinyl Chloride	0.897	0.825	0.785	0.846	0.791	0.788	0.822	5.4
Bromomethane		0.383	0.370	0.395	0.356	0.344	0.370	5.5
Chloroethane	0.650	0.580	0.519	0.543	0.500	0.509	0.550	10.3
Trichlorofluoromethane	0.988	0.951	0.859	0.927	0.863	0.875	0.911	5.9
1,1,2-Trichlorotrifluoroethane	0.577	0.581	0.522	0.567	0.526	0.532	0.551	4.9
1,1-Dichloroethene	0.660	0.622	0.553	0.588	0.551	0.557	0.588	7.6
Acetone	0.423	0.284	0.252	0.283	0.251	0.247	0.290	23.2
Carbon Disulfide	2.325	1.864	1.602	1.721	1.558	1.503	1.762	17.3
Methyl tert-butyl Ether	2.478	2.266	2.013	2.199	2.010	2.014	2.163	8.8
Methyl Acetate	1.024	0.912	0.819	0.864	0.781	0.822	0.870	10
Methylene Chloride	0.782	0.707	0.616	0.670	0.619	0.629	0.670	9.7
trans-1,2-Dichloroethene	0.703	0.656	0.557	0.620	0.575	0.580	0.615	9.1
1,1-Dichloroethane	1.315	1.274	1.122	1.206	1.136	1.152	1.201	6.6
Cyclohexane		1.439	1.140	1.169	1.066	1.062	1.175	13.1
2-Butanone	0.504	0.473	0.420	0.466	0.425	0.420	0.451	7.7
Carbon Tetrachloride	0.470	0.471	0.409	0.449	0.423	0.426	0.441	5.9
cis-1,2-Dichloroethene	0.882	0.810	0.694	0.764	0.714	0.720	0.764	9.3
Bromochloromethane	0.545	0.608	0.436	0.465	0.495	0.506	0.509	12
Chloroform	1.318	1.233	1.122	1.196	1.105	1.104	1.180	7.3
1,1,1-Trichloroethane	1.095	1.083	0.953	1.026	0.949	0.949	1.009	6.8
Methylcyclohexane	0.611	0.579	0.513	0.549	0.524	0.531	0.551	6.8
Benzene	1.648	1.545	1.389	1.508	1.409	1.411	1.485	6.8
1,2-Dichloroethane	0.526	0.496	0.448	0.482	0.444	0.446	0.474	7.1
Trichloroethene	0.390	0.357	0.334	0.352	0.338	0.341	0.352	5.8
1,2-Dichloropropane	0.378	0.383	0.355	0.368	0.349	0.347	0.364	4.2
Bromodichloromethane	0.531	0.530	0.477	0.510	0.475	0.477	0.500	5.4
4-Methyl-2-Pentanone	0.522	0.522	0.479	0.521	0.484	0.471	0.500	4.9
Toluene	1.003	0.963	0.865	0.941	0.892	0.895	0.927	5.6

* 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	RRF010	RRF020	RRF050	RRF100	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.576	0.574	0.528	0.572	0.547	0.554	0.558	3.4
cis-1,3-Dichloropropene	0.679	0.636	0.580	0.621	0.577	0.587	0.613	6.5
1,1,2-Trichloroethane	0.367	0.357	0.315	0.332	0.318	0.313	0.333	6.9
2-Hexanone	0.394	0.387	0.355	0.383	0.355	0.349	0.371	5.3
Dibromochloromethane	0.377	0.381	0.354	0.375	0.353	0.356	0.366	3.5
1,2-Dibromoethane	0.359	0.342	0.319	0.350	0.324	0.323	0.336	4.9
Tetrachloroethene	0.419	0.399	0.358	0.390	0.371	0.370	0.385	5.8
Chlorobenzene	1.235	1.175	1.058	1.117	1.050	1.059	1.116	6.8
Ethyl Benzene	2.210	2.112	1.873	2.028	1.918	1.941	2.014	6.4
m/p-Xylenes	0.809	0.795	0.705	0.757	0.727	0.734	0.754	5.4
o-Xylene	0.791	0.792	0.709	0.753	0.713	0.718	0.746	5.2
Styrene	1.306	1.288	1.156	1.245	1.218	1.246	1.243	4.3
Bromoform	0.306	0.294	0.258	0.279	0.261	0.264	0.277	7
Isopropylbenzene	4.666	4.271	3.991	4.181	3.728	3.706	4.090	8.9
1,1,2,2-Tetrachloroethane	1.347	1.294	1.181	1.212	1.035	0.985	1.176	12.1
1,3-Dichlorobenzene	1.866	1.822	1.618	1.698	1.610	1.608	1.704	6.7
1,4-Dichlorobenzene	1.942	1.815	1.615	1.713	1.614	1.597	1.716	8
1,2-Dichlorobenzene	1.819	1.820	1.565	1.646	1.559	1.502	1.652	8.4
1,2-Dibromo-3-Chloropropane	0.234	0.274	0.229	0.251	0.222	0.213	0.237	9.2
1,2,4-Trichlorobenzene	0.822	0.865	0.730	0.793	0.765	0.771	0.791	6
1,2,3-Trichlorobenzene	0.819	0.810	0.697	0.749	0.708	0.709	0.749	7.2
1,2-Dichloroethane-d4		0.746	0.745	0.707	0.719	0.708	0.725	2.6
Dibromofluoromethane		0.267	0.255	0.230	0.215	0.194	0.232	12.8
Toluene-d8		1.247	1.281	1.185	1.251	1.237	1.240	2.8
4-Bromofluorobenzene		0.459	0.456	0.421	0.459	0.467	0.452	4

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