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

Lab Name: CHEMTECH Contract: RTPE01

Lab Code: CHEM Case No.: Q2317 SAS No.: Q2317 SDG No.: Q2317

Instrument ID: MSVOA_L Calibration Date(s): 05/29/2025 05/29/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:09 14:24

GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID: RRF010 = VL042579.D RRF002 = VL042580.D RRF001 = VL042581.D
RRF0.5 = VL042582.D RRF0.1 = VL042583.D RRF.03 = VL042584.D

COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	1.135	1.300	1.353	1.257			1.229	8.8
Chloromethane	0.461	0.507	0.529	0.502			0.487	7.9
Vinyl Chloride	0.437	0.468	0.487	0.529	0.465	0.675	0.496	17.7
Bromomethane	0.216	0.230	0.251	0.310			0.241	17.7
Chloroethane	0.175	0.198	0.212	0.214			0.193	11.6
Tetrahydrofuran	0.388	0.426	0.446	0.445			0.417	7.3
Trichlorofluoromethane	1.071	1.202	1.209	1.193			1.144	7
1,1,2-Trichlorotrifluoroethane	0.838	0.951	0.980	0.903			0.898	7.8
Dichlorotetrafluoroethane	0.948	1.075	1.098	1.099			1.024	9.1
tert-Butyl alcohol	1.237	1.279	1.334	1.337			1.255	8.1
Heptane	1.777	1.981	2.082	2.079			1.921	9.4
1,1-Dichloroethene	0.377	0.437	0.451	0.451			0.416	10.1
Acetone	0.928	1.299	1.484	1.404			1.205	22.4
Carbon Disulfide	1.069	1.198	1.267	1.174			1.150	8.2
Methyl tert-Butyl Ether	0.550	0.621	0.693	0.664			0.608	12.6
Methylene Chloride	0.326	0.418	0.457	0.473			0.398	18.6
trans-1,2-Dichloroethene	0.427	0.466	0.517	0.496			0.465	9.2
1,1-Dichloroethane	0.903	1.004	1.046	0.996			0.957	9
Cyclohexane	1.146	1.288	1.363	1.318			1.242	9.4
2-Butanone	0.655	0.746	0.754	0.760			0.713	7.7
Carbon Tetrachloride	0.603	0.670	0.684	0.665	0.706	0.681	0.660	5.8
cis-1,2-Dichloroethene	1.271	1.465	1.461	1.419			1.370	8
Chloroform	1.755	2.034	2.120	2.099			1.948	9.7
1,1,1-Trichloroethane	1.794	2.029	2.043	2.004	2.083	2.207	1.990	7.9
2,2,4-Trimethylpentane	1.522	1.765	1.830	1.811			1.684	9.7
Benzene	0.900	1.027	1.052	1.051			0.985	8.2
1,2-Dichloroethane	0.448	0.513	0.509	0.518			0.489	6.7
Trichloroethene	0.376	0.438	0.455	0.468	0.432	0.389	0.419	9.3
1,2-Dichloropropane	0.329	0.373	0.374	0.415			0.364	9.9
Bromodichloromethane	0.656	0.721	0.737	0.702			0.695	5.2

* 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	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
4-Methyl-2-Pentanone	0.958	1.002	1.030	1.036			0.989	5
Toluene	1.054	1.197	1.190	1.210			1.138	7.4
t-1,3-Dichloropropene	0.424	0.456	0.455	0.433			0.437	4
cis-1,3-Dichloropropene	0.527	0.555	0.568	0.567			0.548	4
1,1,2-Trichloroethane	0.343	0.394	0.401	0.406			0.377	8.7
Dibromochloromethane	0.570	0.635	0.642	0.600			0.603	5.6
1,2-Dibromoethane	0.516	0.576	0.590	0.578	0.575		0.558	6.1
Tetrachloroethene	0.333	0.390	0.383	0.391	0.407	0.351	0.368	8.9
Chlorobenzene	0.868	1.014	1.028	1.081			0.971	10.2
Ethyl Benzene	1.547	1.833	1.786	1.770			1.696	8.2
m/p-Xylene	1.212	1.431	1.412	1.411			1.335	8.5
o-Xylene	1.187	1.441	1.410	1.430			1.331	9.9
Styrene	0.590	0.678	0.658	0.626			0.629	6.1
Bromoform	0.508	0.553	0.519	0.524			0.521	3.8
1,1,2,2-Tetrachloroethane	0.723	0.855	0.861	0.879	0.828	1.054	0.847	13.2
2-Chlorotoluene	1.343	1.596	1.620	1.603			1.500	9.7
1,3,5-Trimethylbenzene	1.235	1.475	1.482	1.441			1.374	9.3
1,2,4-Trimethylbenzene	1.335	1.666	1.675	1.640			1.524	12.3
1,3-Dichlorobenzene	0.839	1.040	1.034	1.031			0.957	11.1
1,4-Dichlorobenzene	0.849	1.037	1.040	0.998			0.955	10.2
1,2-Dichlorobenzene	0.798	1.027	1.008	1.019			0.929	13.1
1,2,4-Trichlorobenzene	0.735	0.944	0.889	0.716			0.802	13.3
Hexachloro-1,3-Butadiene	0.607	0.880	0.893	0.872			0.769	20.1
1,3-Butadiene	0.491	0.597	0.636	0.649			0.571	14.1
Naphthalene	1.384	1.785	1.634	1.366	1.088		1.437	16.9
4-Ethyltoluene	1.481	1.823	1.797	1.704			1.660	9.9
1-Bromo-4-Fluorobenzene	0.744	0.741	0.751	0.755	0.751	0.752	0.750	0.7
Hexane	1.350	1.526	1.638	1.690			1.498	11.8
Allyl Chloride	0.789	0.866	0.921	0.924			0.850	9.2
1,4-Dioxane	151.601	168.112	178.377	171.890			162.953	8.7

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COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Methyl Methacrylate	0.366	0.406	0.384	0.398			0.382	5.4

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