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

Lab Name: CHEMTECH Contract: ENVI46

Lab Code: CHEM Case No.: Q1532 SAS No.: Q1532 SDG No.: Q1532

Instrument ID: MSVOA_L Calibration Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) N Calibration Time(s): 08:56 12:07

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

LAB FILE ID: RRF010 = VL042041.D RRF002 = VL042042.D RRF001 = VL042043.D
RRF0.5 = VL042044.D RRF0.1 = VL042045.D RRF.03 = VL042046.D

COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.943	1.091	1.084	1.109			1.040	7.3
Chloromethane	0.344	0.399	0.398	0.438			0.385	10.5
Vinyl Chloride	0.337	0.361	0.346	0.376	0.336	0.447	0.364	10.9
Bromomethane	0.160	0.186	0.184	0.170			0.173	6.6
Chloroethane	0.135	0.156	0.158	0.151			0.148	6.8
Tetrahydrofuran	0.418	0.473	0.492	0.469			0.460	6
Trichlorofluoromethane	0.944	1.119	1.122	1.056			1.042	8
1,1,2-Trichlorotrifluoroethane	0.697	0.865	0.902	0.919			0.831	11.3
Dichlorotetrafluoroethane	0.779	0.901	0.910	0.892			0.855	7.5
tert-Butyl alcohol	0.950	1.201	1.185	1.184			1.105	10.7
Heptane	1.662	1.960	1.946	1.971			1.844	8.6
1,1-Dichloroethene	0.320	0.386	0.437	0.398			0.376	12.6
Acetone	0.714	0.933	0.960	1.084			0.883	18.2
Carbon Disulfide	0.856	1.032	0.972	1.042			0.969	7.8
Methyl tert-Butyl Ether	0.522	0.838	0.844	0.650			0.711	19
Methylene Chloride	0.261	0.329	0.374	0.429			0.334	20.7
trans-1,2-Dichloroethene	0.358	0.450	0.506	0.481			0.438	13.9
1,1-Dichloroethane	0.669	0.863	0.856	0.927			0.815	12.4
Cyclohexane	1.076	1.255	1.239	1.154			1.160	7.4
2-Butanone	0.692	0.812	0.799	0.833			0.779	7.2
Carbon Tetrachloride	0.655	0.725	0.723	0.675	0.705	0.664	0.690	4.1
cis-1,2-Dichloroethene	1.237	1.450	1.401	1.421			1.353	7.3
Chloroform	1.722	1.971	2.044	2.165			1.923	10.4
1,1,1-Trichloroethane	1.771	1.944	1.916	1.883	1.875	1.921	1.866	4.1
2,2,4-Trimethylpentane	1.670	1.955	1.935	1.928			1.848	7
Benzene	0.969	1.104	1.084	1.079			1.047	5.7
1,2-Dichloroethane	0.520	0.598	0.604	0.624			0.580	7.2
Trichloroethene	0.378	0.447	0.447	0.433	0.462	0.447	0.427	8.1
1,2-Dichloropropane	0.357	0.414	0.415	0.421			0.397	7
Bromodichloromethane	0.739	0.810	0.791	0.806			0.782	3.8

* 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	1.014	0.975	0.974	0.996			1.008	4.3
Toluene	1.088	1.284	1.210	1.150			1.170	6.7
t-1,3-Dichloropropene	0.393	0.418	0.392	0.414			0.406	3.1
cis-1,3-Dichloropropene	0.516	0.548	0.523	0.514			0.526	2.6
1,1,2-Trichloroethane	0.361	0.426	0.429	0.426			0.403	8.1
Dibromochloromethane	0.594	0.667	0.667	0.618			0.632	5.2
1,2-Dibromoethane	0.500	0.586	0.553	0.556	0.563		0.545	5.9
Tetrachloroethene	0.327	0.385	0.383	0.380	0.374	0.322	0.358	7.9
Chlorobenzene	0.910	1.121	1.113	1.102			1.037	10
Ethyl Benzene	1.694	1.974	1.906	1.886			1.842	6.3
m/p-Xylene	1.330	1.580	1.550	1.488			1.466	7.4
o-Xylene	1.317	1.577	1.550	1.572			1.473	8.7
Styrene	0.658	0.738	0.719	0.659			0.693	5.2
Bromoform	0.525	0.588	0.551	0.553			0.549	4.7
1,1,2,2-Tetrachloroethane	0.848	1.031	1.041	1.026	0.975	0.999	0.970	8.1
2-Chlorotoluene	1.514	1.853	1.829	1.758			1.701	9.3
1,3,5-Trimethylbenzene	1.381	1.696	1.732	1.592			1.560	10.5
1,2,4-Trimethylbenzene	1.471	1.990	1.982	1.855			1.757	14.8
1,3-Dichlorobenzene	0.869	1.083	1.110	1.112			1.011	12.3
1,4-Dichlorobenzene	0.861	1.092	1.061	1.120			1.004	12.1
1,2-Dichlorobenzene	0.836	1.063	1.097	1.059			0.981	12.9
1,2,4-Trichlorobenzene	0.644	0.765	0.687	0.589			0.671	9.6
Hexachloro-1,3-Butadiene	0.637	0.844	0.832	0.840			0.764	13.5
1,3-Butadiene	0.358	0.418	0.435	0.476			0.411	12
Naphthalene	1.371	1.352	1.237	0.978	0.841		1.205	20.2
4-Ethyltoluene	1.621	1.985	1.944	1.775			1.799	9
1-Bromo-4-Fluorobenzene	0.764	0.765	0.777	0.768	0.760	0.773	0.769	0.9
Hexane	1.282	1.519	1.462	1.596			1.429	9.8
Allyl Chloride	0.538	0.639	0.717	0.707			0.638	11.9
1,4-Dioxane	164.198	180.798	196.498	192.054			181.383	7.3

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COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Methyl Methacrylate	0.392	0.426	0.418	0.400			0.409	3.3

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