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

Lab Name: Alliance Contract: GFEL01

Lab Code: ACE SDG No.: Q3320

Instrument ID: MSVOA_L Calibration Date(s): 10/02/2025 10/02/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:50 13:41

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

LAB FILE ID: RRF0.5 = VL043031.D RRF010 = VL043032.D RRF002 = VL043033.D
RRF001 = VL043034.D RRF0.1 = VL043036.D RRF.03 = VL043037.D

COMPOUND	RRF0.5	RRF010	RRF002	RRF001	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	1.748	1.587	1.698	1.803			1.685	5.7
Chloromethane	0.644	0.577	0.614	0.663			0.616	6.2
Vinyl Chloride	0.605	0.539	0.564	0.573	0.687	0.573	0.584	8.6
Bromomethane	0.260	0.248	0.270	0.283			0.263	5.4
Chloroethane	0.259	0.223	0.256	0.257			0.244	7.6
Tetrahydrofuran	0.297	0.376	0.365	0.338			0.351	9.7
Trichlorofluoromethane	1.770	1.621	1.761	1.866			1.732	5.8
1,1,2-Trichlorotrifluoroethane	1.449	1.284	1.392	1.410			1.364	5.5
Dichlorotetrafluoroethane	1.429	1.301	1.438	1.430			1.381	5.1
tert-Butyl alcohol	1.663	1.377	1.437	1.586			1.481	9.3
Heptane	1.332	1.760	1.650	1.565			1.616	11.2
1,1-Dichloroethene	0.607	0.575	0.610	0.626			0.598	3.9
Acetone	1.669	1.143	1.472	1.561			1.400	17.1
Carbon Disulfide	1.681	1.521	1.576	1.655			1.595	4.4
Methyl tert-Butyl Ether	0.853	0.823	0.868	0.872			0.846	3.1
Methylene Chloride	0.809	0.490	0.577	0.684			0.611	22.2
trans-1,2-Dichloroethene	0.723	0.635	0.676	0.713			0.679	5.7
1,1-Dichloroethane	1.347	1.206	1.295	1.365			1.287	5.6
Cyclohexane	0.947	1.191	1.145	1.068			1.110	9.5
2-Butanone	0.704	0.655	0.695	0.685			0.679	3.4
Carbon Tetrachloride	0.816	0.761	0.770	0.805	0.828	1.006	0.823	10.3
cis-1,2-Dichloroethene	1.329	1.403	1.436	1.390			1.389	2.8
Chloroform	2.393	2.206	2.326	2.395			2.304	4.2
1,1,1-Trichloroethane	2.204	2.170	2.255	2.216	2.098	2.543	2.239	6.4
2,2,4-Trimethylpentane	1.388	1.593	1.589	1.494			1.533	6
Benzene	0.901	0.964	0.971	0.984			0.955	3.3
1,2-Dichloroethane	0.584	0.547	0.570	0.577			0.566	2.8
Trichloroethene	0.404	0.409	0.402	0.424	0.386	0.355	0.398	5.6
1,2-Dichloropropane	0.360	0.350	0.354	0.362			0.354	2
Bromodichloromethane	0.818	0.788	0.791	0.805			0.799	1.5

* 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	RRF0.5	RRF010	RRF002	RRF001	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
4-Methyl-2-Pentanone	0.719	0.910	0.820	0.763			0.827	10.9
Toluene	0.790	1.087	0.966	0.881			0.965	13.7
t-1,3-Dichloropropene	0.268	0.314	0.279	0.268			0.290	8.9
cis-1,3-Dichloropropene	0.374	0.440	0.396	0.386			0.409	8.2
1,1,2-Trichloroethane	0.414	0.376	0.395	0.405			0.394	4.2
Dibromochloromethane	0.610	0.661	0.644	0.644			0.643	3.1
1,2-Dibromoethane	0.448	0.481	0.471	0.472	0.445		0.467	3.6
Tetrachloroethene	0.339	0.345	0.352	0.343	0.328	0.424	0.354	9
Chlorobenzene	1.088	1.015	1.086	1.096			1.057	4.2
Ethyl Benzene	1.232	1.759	1.598	1.379			1.549	15.4
m/p-Xylene	1.012	1.443	1.401	1.231			1.307	14.3
o-Xylene	1.020	1.439	1.385	1.216			1.302	14.1
Styrene	0.398	0.666	0.523	0.449			0.545	23.8
Bromoform	0.492	0.560	0.542	0.516			0.537	6.2
1,1,2,2-Tetrachloroethane	0.919	0.870	0.949	0.949	0.884	1.080	0.934	7.7
2-Chlorotoluene	1.157	1.583	1.522	1.348			1.446	13.3
1,3,5-Trimethylbenzene	1.041	1.470	1.423	1.271			1.340	14.1
1,2,4-Trimethylbenzene	1.133	1.633	1.676	1.492			1.513	14.8
1,3-Dichlorobenzene	0.932	0.976	1.031	0.986			0.984	3.6
1,4-Dichlorobenzene	0.825	0.967	0.990	0.929			0.938	7.2
1,2-Dichlorobenzene	0.951	0.930	1.036	1.037			0.980	5.3
1,2,4-Trichlorobenzene	0.383	0.696	0.629	0.476			0.583	25.5
Hexachloro-1,3-Butadiene	0.683	0.645	0.731	0.705			0.683	5.3
1,3-Butadiene	0.609	0.536	0.611	0.587			0.577	6.2
Naphthalene	0.611	1.288	1.115	0.746	0.333		0.903	44.5
4-Ethyltoluene	1.145	1.751	1.647	1.426			1.549	17.1
1-Bromo-4-Fluorobenzene	0.727	0.735	0.732	0.726	0.692	0.688	0.720	3
Hexane	1.261	1.401	1.413	1.271			1.351	5.8
Allyl Chloride	0.982	0.843	0.920	0.888			0.897	6.3
1,4-Dioxane	145.872	157.000	152.212	150.574			151.898	2.7

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COMPOUND	RRF0.5	RRF010	RRF002	RRF001	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Methyl Methacrylate	0.281	0.353	0.308	0.286			0.317	11.5

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