284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1342 SAS No.: Q1342 SDG No.: Q1342

Instrument ID: MSVOA_L Calibration Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Calibration Time(s): 12:55 16:05

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

LAB FILE ID: RRF010 = VL041889.D RRF002 = VL041890.D RRF001 = VL041891.D
RRF0.5 = VL041892.D RRF0.1 = VL041893.D RRF.03 = VL041894.D

COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	1.300	1.359	1.406	1.450			1.362	4.9
Chloromethane	0.492	0.525	0.499	0.546			0.512	4.4
Vinyl Chloride	0.466	0.502	0.531	0.561	0.578	0.504	0.519	7.6
Bromomethane	0.229	0.248	0.274	0.253			0.247	7.3
Chloroethane	0.193	0.209	0.205	0.210			0.202	4.1
Tetrahydrofuran	0.348	0.358	0.344	0.333			0.346	2.5
Trichlorofluoromethane	1.335	1.435	1.417	1.488			1.417	3.9
1,1,2-Trichlorotrifluoroethane	1.057	1.166	1.137	1.098			1.111	3.8
Dichlorotetrafluoroethane	1.095	1.225	1.198	1.282			1.190	6
tert-Butyl alcohol	1.399	1.503	1.559	1.527			1.478	4.9
Heptane	1.530	1.635	1.616	1.536			1.571	3.2
1,1-Dichloroethene	0.458	0.514	0.517	0.520			0.501	5.2
Acetone	0.991	1.256	1.301	1.405			1.201	14.5
Carbon Disulfide	1.258	1.304	1.256	1.210			1.268	3.2
Methyl tert-Butyl Ether	0.774	1.007	1.187	1.043			0.979	16.1
Methylene Chloride	0.390	0.478	0.503	0.586			0.475	16.3
trans-1,2-Dichloroethene	0.540	0.595	0.583	0.549			0.565	4.1
1,1-Dichloroethane	1.017	1.100	1.099	1.165			1.093	4.8
Cyclohexane	1.082	1.145	1.193	1.037			1.111	5.4
2-Butanone	0.602	0.679	0.646	0.649			0.636	5.1
Carbon Tetrachloride	0.649	0.657	0.616	0.584	0.608	0.605	0.628	5.3
cis-1,2-Dichloroethene	1.272	1.390	1.397	1.406			1.349	5
Chloroform	1.911	2.105	2.060	2.101			2.025	4.4
1,1,1-Trichloroethane	1.905	1.956	2.010	1.942	1.841	1.937	1.938	2.8
2,2,4-Trimethylpentane	1.457	1.566	1.501	1.450			1.484	3.5
Benzene	0.882	0.949	0.949	0.926			0.917	3.8
1,2-Dichloroethane	0.493	0.517	0.516	0.539			0.515	3.2
Trichloroethene	0.354	0.373	0.374	0.381	0.427	0.286	0.364	11.6
1,2-Dichloropropane	0.305	0.329	0.321	0.349			0.322	5.8
Bromodichloromethane	0.684	0.703	0.659	0.700			0.691	2.8

* 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	0.833	0.899	0.870	0.892			0.868	3.3
Toluene	1.011	1.048	0.996	0.934			0.999	4.1
t-1,3-Dichloropropene	0.338	0.319	0.292	0.300			0.319	7.4
cis-1,3-Dichloropropene	0.446	0.439	0.391	0.371			0.419	8.4
1,1,2-Trichloroethane	0.333	0.350	0.345	0.340			0.341	2.1
Dibromochloromethane	0.545	0.541	0.489	0.490			0.526	6.6
1,2-Dibromoethane	0.454	0.494	0.468	0.488	0.440		0.469	4.3
Tetrachloroethene	0.292	0.330	0.329	0.317	0.348	0.320	0.318	6.5
Chlorobenzene	0.848	0.977	0.968	0.986			0.922	8.2
Ethyl Benzene	1.551	1.653	1.563	1.507			1.563	3.5
m/p-Xylene	1.223	1.355	1.265	1.186			1.253	5.1
o-Xylene	1.224	1.348	1.241	1.179			1.243	5.1
Styrene	0.587	0.576	0.515	0.516			0.558	7
Bromoform	0.460	0.439	0.394	0.379			0.432	10.5
1,1,2,2-Tetrachloroethane	0.751	0.858	0.845	0.816	0.756		0.795	6.5
2-Chlorotoluene	1.389	1.537	1.410	1.394			1.423	4.5
1,3,5-Trimethylbenzene	1.263	1.448	1.360	1.222			1.313	6.9
1,2,4-Trimethylbenzene	1.346	1.607	1.456	1.359			1.422	8
1,3-Dichlorobenzene	0.776	0.903	0.884	0.881			0.843	7.6
1,4-Dichlorobenzene	0.769	0.889	0.859	0.830			0.825	6.3
1,2-Dichlorobenzene	0.757	0.909	0.902	0.863			0.835	9.4
1,2,4-Trichlorobenzene	0.598	0.819	0.738	0.745			0.699	14.1
Hexachloro-1,3-Butadiene	0.586	0.772	0.742	0.747			0.686	13.7
1,3-Butadiene	0.494	0.545	0.589	0.552			0.539	6.7
Naphthalene	1.255	1.941	1.682	1.479	0.978		1.432	24
4-Ethyltoluene	1.466	1.610	1.447	1.442			1.487	4.7
1-Bromo-4-Fluorobenzene	0.782	0.795	0.792	0.784	0.785	0.783	0.788	0.7
Hexane	1.261	1.388	1.249	1.265			1.281	4.7
Allyl Chloride	0.792	0.847	0.823	0.897			0.832	5.1
1,4-Dioxane	147.355	161.082	161.992	187.108			162.477	9.2

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COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Methyl Methacrylate	0.338	0.349	0.336	0.340			0.341	1.4

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
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