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

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032

Instrument ID: MSVOA_N Calibration Date(s): 05/16/2025 05/16/2025

Heated Purge: (Y/N) N Calibration Time(s): 16:31 18:32

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

LAB FILE ID: RRF001 = VN086669.D RRF005 = VN086670.D RRF010 = VN086671.D
RRF020 = VN086672.D RRF050 = VN086673.D RRF100 = VN086674.D

COMPOUND	RRF001	RRF005	RRF010	RRF020	RRF050	RRF100	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.408	0.476	0.639	0.477	0.599	0.641	0.540	18.4
Chloromethane	0.859	0.798	0.850	0.762	0.782	0.850	0.817	5
Vinyl Chloride	0.655	0.708	0.780	0.713	0.753	0.792	0.733	7
Bromomethane		0.442	0.441	0.415	0.403	0.413	0.423	4.1
Chloroethane	0.445	0.489	0.509	0.483	0.466	0.491	0.480	4.6
Trichlorofluoromethane	0.777	0.887	0.892	0.899	0.880	0.925	0.877	5.9
1,1,2-Trichlorotrifluoroethane	0.449	0.535	0.544	0.544	0.528	0.549	0.525	7.3
1,1-Dichloroethene	0.531	0.563	0.563	0.557	0.548	0.583	0.558	3.1
Acetone	0.286	0.252	0.259	0.257	0.243	0.254	0.258	5.7
Carbon Disulfide	1.452	1.491	1.544	1.563	1.543	1.673	1.544	4.9
Methyl tert-butyl Ether	1.739	1.876	1.913	1.972	1.913	1.982	1.899	4.6
Methyl Acetate	0.925	0.709	0.682	0.677	0.663	0.685	0.723	13.8
Methylene Chloride	0.746	0.683	0.670	0.679	0.631	0.684	0.682	5.4
trans-1,2-Dichloroethene	0.550	0.601	0.587	0.609	0.577	0.613	0.590	4
1,1-Dichloroethane	1.049	1.127	1.126	1.146	1.104	1.156	1.118	3.4
Cyclohexane		1.105	1.060	1.023	0.983	1.013	1.037	4.5
2-Butanone	0.361	0.404	0.398	0.414	0.402	0.418	0.399	5.1
Carbon Tetrachloride	0.384	0.438	0.430	0.460	0.430	0.454	0.433	6.2
cis-1,2-Dichloroethene	0.681	0.721	0.721	0.754	0.712	0.754	0.724	3.8
Bromochloromethane	0.489	0.526	0.519	0.506	0.508	0.501	0.508	2.6
Chloroform	1.061	1.146	1.109	1.173	1.093	1.133	1.119	3.5
1,1,1-Trichloroethane	0.874	0.936	0.949	0.986	0.945	0.971	0.944	4.1
Methylcyclohexane	0.436	0.460	0.466	0.496	0.482	0.513	0.475	5.8
Benzene	1.348	1.429	1.447	1.484	1.402	1.487	1.433	3.7
1,2-Dichloroethane	0.413	0.457	0.451	0.467	0.438	0.452	0.446	4.2
Trichloroethene	0.306	0.341	0.358	0.361	0.343	0.365	0.346	6.3
1,2-Dichloropropane	0.311	0.337	0.343	0.363	0.336	0.352	0.340	5.2
Bromodichloromethane	0.437	0.468	0.469	0.496	0.471	0.497	0.473	4.7
4-Methyl-2-Pentanone	0.396	0.448	0.452	0.478	0.451	0.467	0.449	6.3
Toluene	0.765	0.898	0.891	0.956	0.887	0.947	0.891	7.7

* 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	0.433	0.483	0.489	0.533	0.514	0.554	0.501	8.5
cis-1,3-Dichloropropene	0.485	0.537	0.552	0.576	0.546	0.586	0.547	6.5
1,1,2-Trichloroethane	0.324	0.338	0.327	0.346	0.321	0.338	0.332	2.9
2-Hexanone	0.282	0.317	0.331	0.357	0.333	0.346	0.328	8.1
Dibromochloromethane	0.302	0.334	0.347	0.374	0.349	0.384	0.348	8.4
1,2-Dibromoethane	0.289	0.332	0.340	0.353	0.334	0.354	0.334	7.2
Tetrachloroethene	0.357	0.396	0.392	0.392	0.369	0.392	0.383	4.2
Chlorobenzene	1.030	1.112	1.109	1.138	1.060	1.130	1.096	3.9
Ethyl Benzene	1.715	1.837	1.869	1.972	1.865	2.009	1.878	5.6
m/p-Xylenes	0.592	0.704	0.718	0.762	0.717	0.774	0.711	9.1
o-Xylene	0.604	0.697	0.703	0.759	0.721	0.759	0.707	8.1
Styrene	0.951	1.119	1.128	1.259	1.200	1.288	1.158	10.5
Bromoform	0.214	0.243	0.247	0.265	0.261	0.281	0.252	9.2
Isopropylbenzene	3.739	3.814	3.903	4.151	3.541	4.022	3.862	5.6
1,1,2,2-Tetrachloroethane	1.142	1.252	1.255	1.260	1.054	1.156	1.186	7
1,3-Dichlorobenzene	1.619	1.715	1.707	1.734	1.602	1.715	1.682	3.4
1,4-Dichlorobenzene	1.587	1.673	1.695	1.751	1.583	1.711	1.667	4.1
1,2-Dichlorobenzene	1.574	1.585	1.636	1.655	1.550	1.600	1.600	2.5
1,2-Dibromo-3-Chloropropane	0.164	0.205	0.194	0.200	0.201	0.215	0.197	8.9
1,2,4-Trichlorobenzene	0.577	0.629	0.658	0.720	0.686	0.782	0.675	10.6
1,2,3-Trichlorobenzene	0.626	0.612	0.664	0.674	0.653	0.739	0.661	6.8
1,2-Dichloroethane-d4		0.718	0.658	0.687	0.693	0.698	0.691	3.2
Dibromofluoromethane		0.300	0.289	0.291	0.298	0.311	0.298	3
Toluene-d8		1.203	1.159	1.233	1.250	1.325	1.234	5
4-Bromofluorobenzene		0.412	0.403	0.433	0.450	0.481	0.436	7.2

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