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

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1502 SAS No.: Q1502 SDG No.: Q1502

Instrument ID: MSVOA_X Calibration Date(s): 02/21/2025 02/21/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:58 11:29

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF005 = VX045008.D RRF020 = VX045009.D RRF050 = VX045010.D
RRF100 = VX045011.D RRF150 = VX045012.D RRF =

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	2.499	2.478	2.571	2.428	2.669		2.529	3.7
Chloromethane	3.021	2.986	3.118	2.875	3.145		3.029	3.6
Vinyl Chloride	2.916	2.831	2.918	2.825	3.124		2.923	4.1
Ethyl Acetate	0.552	0.578	0.610	0.606	0.642		0.598	5.7
Bromomethane	1.116	0.976	0.995	0.944	1.056		1.017	6.7
Chloroethane	1.821	1.663	1.752	1.466	1.212		1.583	15.6
Trichlorofluoromethane	3.982	3.712	3.968	3.809	4.170		3.928	4.5
1,1,2-Trichlorotrifluoroethane	2.377	2.192	2.362	2.241	2.493		2.333	5.1
1,1-Dichloroethene	2.200	2.142	2.300	2.262	2.491		2.279	5.8
Acrolein	0.504	0.473	0.527	0.540	0.608		0.530	9.5
Acrylonitrile	1.204	1.244	1.348	1.284	1.384		1.293	5.7
Acetone	0.371	0.352	0.354	0.338	0.358		0.355	3.4
Carbon Disulfide	6.269	5.990	6.491	6.437	7.134		6.464	6.5
Methyl tert-Butyl Ether	7.103	7.021	7.516	7.382	8.169		7.438	6.1
Methylene Chloride	2.462	2.482	2.619	2.509	2.745		2.563	4.6
trans-1,2-Dichloroethene	2.232	2.191	2.345	2.260	2.501		2.306	5.3
Vinyl Acetate	1.136	1.190	1.304	1.244	1.311		1.237	6.1
1,1-Dichloroethane	4.525	4.343	4.508	4.473	4.929		4.555	4.8
2-Butanone	0.320	0.310	0.333	0.308	0.323		0.319	3.2
Carbon Tetrachloride	0.572	0.548	0.576	0.544	0.581		0.564	3
2,2-Dichloropropane	0.614	0.588	0.635	0.616	0.667		0.624	4.7
cis-1,2-Dichloroethene	2.740	2.632	2.729	2.716	2.997		2.763	5
Chloroform	4.272	4.258	4.406	4.293	4.771		4.400	4.9
1,1,1-Trichloroethane	0.674	0.644	0.686	0.644	0.695		0.669	3.5
1,1-Dichloropropene	0.555	0.537	0.563	0.532	0.572		0.552	3.1
Benzene	1.746	1.697	1.785	1.670	1.756		1.731	2.7
1,2-Dichloroethane	0.598	0.581	0.600	0.577	0.607		0.592	2.2
Trichloroethene	0.407	0.400	0.412	0.390	0.415		0.405	2.5
1,2-Dichloropropane	0.430	0.425	0.427	0.427	0.444		0.430	1.8
Dibromomethane	0.318	0.301	0.311	0.298	0.315		0.309	2.9

* 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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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1502 SAS No.: Q1502 SDG No.: Q1502

Instrument ID: MSVOA_X Calibration Date(s): 02/21/2025 02/21/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:58 11:29

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF005 = VX045008.D RRF020 = VX045009.D RRF050 = VX045010.D
RRF100 = VX045011.D RRF150 = VX045012.D RRF =

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
Bromodichloromethane	0.610	0.593	0.625	0.601	0.639		0.614	3
4-Methyl-2-Pentanone	0.633	0.680	0.731	0.668	0.701		0.682	5.4
Toluene	2.015	1.952	1.995	1.956	2.019		1.987	1.6
t-1,3-Dichloropropene	0.527	0.530	0.616	0.618	0.666		0.591	10.3
cis-1,3-Dichloropropene	0.614	0.635	0.691	0.682	0.726		0.670	6.7
1,1,2-Trichloroethane	0.405	0.404	0.414	0.389	0.402		0.403	2.2
1,3-Dichloropropane	0.703	0.704	0.724	0.678	0.719		0.706	2.5
2-Chloroethyl vinyl ether	0.301	0.314	0.339	0.326	0.346		0.325	5.6
2-Hexanone	0.446	0.488	0.535	0.482	0.516		0.493	7
Dibromochloromethane	0.427	0.436	0.457	0.440	0.468		0.445	3.8
1,2-Dibromoethane	0.397	0.401	0.423	0.397	0.427		0.409	3.6
Tetrachloroethene	0.389	0.368	0.367	0.356	0.367		0.369	3.3
Chlorobenzene	1.223	1.214	1.244	1.220	1.257		1.231	1.5
1,1,1,2-Tetrachloroethane	0.401	0.394	0.408	0.399	0.429		0.406	3.3
Ethyl Benzene	2.094	2.100	2.220	2.178	2.286		2.176	3.7
m/p-Xylenes	0.785	0.816	0.823	0.799	0.831		0.811	2.3
o-Xylene	0.767	0.798	0.813	0.783	0.816		0.795	2.6
Styrene	1.259	1.318	1.363	1.316	1.386		1.328	3.7
Bromoform	0.251	0.258	0.298	0.281	0.308		0.279	8.9
Isopropylbenzene	1.981	2.041	2.089	2.026	2.126		2.053	2.7
1,1,2,2-Tetrachloroethane	0.665	0.664	0.703	0.647	0.695		0.675	3.4
1,2,3-Trichloropropane	0.539	0.540	0.583	0.540	0.574		0.555	3.9
Bromobenzene	0.462	0.467	0.485	0.463	0.486		0.473	2.5
n-propylbenzene	2.281	2.387	2.539	2.437	2.569		2.443	4.8
2-Chlorotoluene	1.465	1.468	1.503	1.431	1.516		1.477	2.3
1,3,5-Trimethylbenzene	1.638	1.691	1.750	1.654	1.733		1.693	2.9
4-Chlorotoluene	1.580	1.618	1.686	1.623	1.723		1.646	3.5
1,2,4-Trimethylbenzene	1.616	1.705	1.768	1.653	1.739		1.696	3.6
sec-Butylbenzene	2.056	2.118	2.210	2.094	2.228		2.141	3.5
p-Isopropyltoluene	1.614	1.709	1.811	1.733	1.808		1.735	4.7

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Lab Code: CHEM Case No.: Q1502 SAS No.: Q1502 SDG No.: Q1502

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RRF100 = VX045011.D RRF150 = VX045012.D RRF =

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
1,3-Dichlorobenzene	0.855	0.874	0.905	0.852	0.910		0.879	3.1
1,4-Dichlorobenzene	0.824	0.854	0.910	0.848	0.897		0.867	4.1
n-Butylbenzene	1.376	1.512	1.675	1.618	1.740		1.584	9
1,2-Dichlorobenzene	0.863	0.868	0.894	0.815	0.872		0.863	3.4
1,2-Dibromo-3-Chloropropane	0.126	0.121	0.133	0.129	0.145		0.131	7.1
1,2,4-Trichlorobenzene	0.461	0.490	0.541	0.539	0.583		0.523	9.1
Hexachlorobutadiene	0.217	0.209	0.213	0.206	0.221		0.213	2.8
Naphthalene	1.606	1.778	1.941	1.861	2.031		1.843	8.8
1,2,3-Trichlorobenzene	0.501	0.523	0.549	0.540	0.578		0.538	5.4
1,2-Dichloroethane-d4	2.881	2.881	2.843	2.920	3.044		2.914	2.7
Toluene-d8	1.652	1.669	1.650	1.677	1.651		1.660	0.7
4-Bromofluorobenzene	0.539	0.560	0.565	0.563	0.578		0.561	2.5

* Compounds with required minimum RRF and maximum %RSD values.
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RRF of 1,4-Dioxane = Value should be divide by 1000.