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

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: Q1038 SAS No.: Q1038 SDG No.: Q1038

Instrument ID: MSVOA_N Calibration Date(s): 12/27/2024 12/27/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:26 12:48

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

LAB FILE ID: RRF100 = VN085321.D RRF050 = VN085322.D RRF020 = VN085323.D
RRF010 = VN085324.D RRF005 = VN085325.D RRF001 = VN085326.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.677	0.699	0.658	0.699	0.674	0.649	0.676	3
Chloromethane	0.674	0.686	0.737	0.739	0.744	0.980	0.760	14.7
Vinyl Chloride	0.766	0.758	0.827	0.781	0.831	0.859	0.804	5.1
Bromomethane	0.481	0.481	0.535	0.540	0.590		0.526	8.7
Chloroethane	0.490	0.482	0.515	0.516	0.534	0.522	0.510	3.9
Trichlorofluoromethane	1.023	1.022	1.089	1.074	1.078	1.055	1.057	2.7
1,1,2-Trichlorotrifluoroethane	0.584	0.578	0.605	0.614	0.634	0.592	0.601	3.4
1,1-Dichloroethene	0.549	0.538	0.584	0.539	0.598	0.526	0.556	5.1
Acetone	0.218	0.223	0.250	0.233	0.234	0.250	0.235	5.6
Carbon Disulfide	1.551	1.536	1.730	1.607	1.702	2.016	1.690	10.5
Methyl tert-butyl Ether	1.876	1.869	1.934	1.790	1.786	1.581	1.806	6.9
Methyl Acetate	0.689	0.696	0.746	0.728	0.719	0.729	0.718	3
Methylene Chloride	0.606	0.613	0.653	0.624	0.643	0.645	0.631	3
trans-1,2-Dichloroethene	0.567	0.565	0.618	0.569	0.590	0.573	0.580	3.5
1,1-Dichloroethane	1.145	1.119	1.209	1.141	1.170	1.143	1.154	2.7
Cyclohexane	0.984	0.979	1.056	1.055	1.196		1.054	8.3
2-Butanone	0.357	0.367	0.390	0.362	0.368	0.339	0.364	4.5
Carbon Tetrachloride	0.516	0.502	0.534	0.491	0.492	0.452	0.498	5.5
cis-1,2-Dichloroethene	0.701	0.691	0.731	0.654	0.662	0.649	0.681	4.7
Bromochloromethane	0.560	0.532	0.540	0.535	0.594	0.457	0.536	8.4
Chloroform	1.155	1.133	1.244	1.161	1.160	1.233	1.181	3.9
1,1,1-Trichloroethane	1.043	1.022	1.099	1.047	1.062	1.055	1.055	2.4
Methylcyclohexane	0.540	0.504	0.513	0.450	0.450	0.387	0.474	11.7
Benzene	1.412	1.377	1.481	1.356	1.387	1.273	1.381	4.9
1,2-Dichloroethane	0.489	0.473	0.546	0.494	0.493	0.475	0.495	5.3
Trichloroethene	0.328	0.311	0.345	0.310	0.324	0.344	0.327	4.7
1,2-Dichloropropane	0.353	0.339	0.377	0.351	0.348	0.336	0.351	4.1
Bromodichloromethane	0.526	0.505	0.529	0.510	0.511	0.459	0.507	5
4-Methyl-2-Pentanone	0.442	0.434	0.462	0.427	0.417	0.338	0.420	10.2
Toluene	0.881	0.846	0.892	0.810	0.829	0.674	0.822	9.6

* 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	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.555	0.529	0.526	0.483	0.498	0.398	0.498	11.1
cis-1,3-Dichloropropene	0.582	0.555	0.585	0.526	0.528	0.457	0.539	8.8
1,1,2-Trichloroethane	0.314	0.306	0.320	0.298	0.328	0.297	0.310	4
2-Hexanone	0.313	0.308	0.327	0.294	0.281	0.226	0.291	12.2
Dibromochloromethane	0.385	0.371	0.378	0.346	0.349	0.269	0.350	12.1
1,2-Dibromoethane	0.318	0.313	0.335	0.309	0.305	0.263	0.307	7.8
Tetrachloroethene	0.321	0.312	0.344	0.331	0.323	0.270	0.317	8.1
Chlorobenzene	1.080	1.049	1.131	1.031	1.067	1.124	1.080	3.7
Ethyl Benzene	1.970	1.877	1.944	1.715	1.729	1.546	1.797	9.1
m/p-Xylenes	0.746	0.709	0.740	0.634	0.644	0.473	0.658	15.5
o-Xylene	0.708	0.689	0.703	0.611	0.602	0.504	0.636	12.5
Styrene	1.209	1.147	1.172	0.964	0.964	0.730	1.031	17.6
Bromoform	0.273	0.263	0.275	0.247	0.243	0.207	0.251	10.1
Isopropylbenzene	3.905	3.731	3.983	3.596	3.684	2.674	3.596	13.2
1,1,2,2-Tetrachloroethane	1.085	1.064	1.196	1.149	1.176	1.201	1.145	5.1
1,3-Dichlorobenzene	1.645	1.580	1.732	1.555	1.655	1.523	1.615	4.7
1,4-Dichlorobenzene	1.633	1.568	1.753	1.602	1.666	1.732	1.659	4.4
1,2-Dichlorobenzene	1.529	1.513	1.672	1.592	1.543	1.382	1.538	6.2
1,2-Dibromo-3-Chloropropane	0.195	0.202	0.224	0.200	0.212	0.189	0.204	6.1
1,2,4-Trichlorobenzene	0.805	0.761	0.825	0.732	0.752	0.731	0.768	5.1
1,2,3-Trichlorobenzene	0.763	0.746	0.811	0.768	0.787	0.728	0.767	3.8
1,2-Dichloroethane-d4	0.715	0.717	0.684	0.692	0.757		0.713	4
Dibromofluoromethane	0.315	0.317	0.293	0.304	0.330		0.312	4.5
Toluene-d8	1.189	1.161	1.070	1.075	1.229		1.145	6.1
4-Bromofluorobenzene	0.407	0.401	0.362	0.347	0.383		0.380	6.6

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