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

Lab Name: CHEMTECH Contract: SCIA01

Lab Code: CHEM Case No.: Q1236 SAS No.: Q1236 SDG No.: Q1236

Instrument ID: MSVOA_D Calibration Date(s): 02/03/2025 02/03/2025

Heated Purge: (Y/N) Y Calibration Time(s): 10:27 12:42

GC Column: RTX-VMS ID: 0.18 (mm)

LAB FILE ID: RRF005 = VD080219.D RRF010 = VD080220.D RRF020 = VD080221.D
RRF050 = VD080222.D RRF100 = VD080223.D RRF150 = VD080224.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.759	0.718	0.656	0.479	0.437	0.497	0.591	23.2
Chloromethane	1.147	1.142	1.148	0.989	0.860	0.963	1.042	11.7
Vinyl Chloride	1.371	1.377	1.336	1.196	1.060	1.220	1.260	9.9
Bromomethane	1.251	1.141	1.021	0.836	0.725	0.855	0.972	20.7
Chloroethane	0.955	0.909	0.853	0.808	0.706	0.805	0.839	10.4
Trichlorofluoromethane	1.228	1.125	1.086	0.980	0.852	0.995	1.044	12.5
1,1,2-Trichlorotrifluoroethane	0.705	0.658	0.613	0.547	0.538	0.565	0.604	11
1,1-Dichloroethene	0.608	0.563	0.593	0.537	0.545	0.588	0.573	4.9
Acetone	0.122	0.109	0.106	0.094	0.097	0.101	0.105	9.5
Carbon Disulfide	2.292	2.207	2.211	1.930	1.763	1.987	2.065	9.9
Methyl tert-butyl Ether	0.990	1.096	1.231	1.373	1.322	1.552	1.261	16
Methyl Acetate	0.318	0.367	0.348	0.353	0.348	0.389	0.354	6.7
Methylene Chloride	0.795	0.755	0.746	0.678	0.613	0.681	0.711	9.3
trans-1,2-Dichloroethene	0.624	0.634	0.635	0.689	0.620	0.700	0.650	5.4
1,1-Dichloroethane	1.206	1.226	1.224	1.246	1.100	1.219	1.204	4.3
Cyclohexane	1.007	0.985	0.941	0.897	0.973	0.979	0.964	4.1
2-Butanone	0.135	0.143	0.160	0.166	0.175	0.197	0.163	13.7
Carbon Tetrachloride	0.544	0.559	0.550	0.529	0.533	0.466	0.530	6.3
cis-1,2-Dichloroethene	0.684	0.699	0.704	0.730	0.749	0.844	0.735	7.9
Bromochloromethane	0.580	0.541	0.574	0.562	0.505	0.535	0.549	5.1
Chloroform	1.249	1.271	1.257	1.180	1.204	1.223	1.231	2.8
1,1,1-Trichloroethane	1.087	1.072	1.034	0.968	1.003	1.014	1.030	4.3
Methylcyclohexane	0.507	0.530	0.528	0.543	0.628	0.573	0.551	7.8
Benzene	1.506	1.538	1.568	1.649	1.642	1.644	1.591	3.9
1,2-Dichloroethane	0.451	0.471	0.446	0.454	0.451	0.443	0.453	2.1
Trichloroethene	0.347	0.373	0.381	0.362	0.390	0.352	0.368	4.6
1,2-Dichloropropane	0.401	0.405	0.414	0.405	0.418	0.359	0.400	5.3
Bromodichloromethane	0.577	0.588	0.574	0.566	0.574	0.494	0.562	6.1
4-Methyl-2-Pentanone	0.176	0.207	0.234	0.243	0.259	0.221	0.223	13.2
Toluene	0.835	0.924	0.962	0.946	1.019	0.898	0.931	6.7

* 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	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.410	0.470	0.510	0.470	0.538	0.477	0.479	9
cis-1,3-Dichloropropene	0.485	0.583	0.605	0.636	0.634	0.555	0.583	9.8
1,1,2-Trichloroethane	0.312	0.298	0.296	0.274	0.289	0.270	0.290	5.4
2-Hexanone	0.108	0.131	0.151	0.147	0.178	0.165	0.147	17
Dibromochloromethane	0.343	0.363	0.374	0.349	0.366	0.348	0.357	3.4
1,2-Dibromoethane	0.259	0.270	0.269	0.254	0.267	0.264	0.264	2.4
Tetrachloroethene	0.368	0.358	0.358	0.290	0.376	0.345	0.349	8.8
Chlorobenzene	1.134	1.156	1.167	1.101	1.167	1.151	1.146	2.2
Ethyl Benzene	1.683	1.725	1.855	1.865	2.060	2.253	1.907	11.3
m/p-Xylenes	0.639	0.657	0.745	0.685	0.782	0.932	0.740	14.7
o-Xylene	0.550	0.617	0.657	0.631	0.722	0.872	0.675	16.5
Styrene	0.968	1.068	1.198	1.147	1.282	1.545	1.201	16.6
Bromoform	0.246	0.221	0.231	0.234	0.223	0.264	0.236	6.8
Isopropylbenzene	2.915	2.868	3.333	3.322	3.612	4.242	3.382	15
1,1,2,2-Tetrachloroethane	0.688	0.656	0.730	0.674	0.742	0.732	0.704	5.1
1,3-Dichlorobenzene	1.689	1.625	1.694	1.615	1.832	1.855	1.718	5.9
1,4-Dichlorobenzene	1.824	1.736	1.742	1.615	1.764	1.753	1.739	3.9
1,2-Dichlorobenzene	1.498	1.500	1.498	1.478	1.547	1.563	1.514	2.2
1,2-Dibromo-3-Chloropropane	0.120	0.106	0.105	0.118	0.113	0.110	0.112	5.3
1,2,4-Trichlorobenzene	0.884	0.826	0.855	0.991	1.055	1.180	0.965	14.1
1,2,3-Trichlorobenzene	0.762	0.754	0.789	0.910	0.915	1.096	0.871	15.1
1,2-Dichloroethane-d4	0.684	0.597	0.683	0.630	0.627	0.681	0.650	5.7
Dibromofluoromethane	0.367	0.343	0.389	0.347	0.362	0.319	0.354	6.7
Toluene-d8	1.239	1.258	1.386	1.392	1.407	1.203	1.314	6.9
4-Bromofluorobenzene	0.422	0.403	0.428	0.440	0.408	0.429	0.422	3.2

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