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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ALLA01

Lab Code: CHEM Case No.: Q1037 SAS No.: Q1037 SDG No.: Q1037

Instrument ID: MSVOA_L Calibration Date(s): 01/09/2025 01/09/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:19 14:27

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

LAB FILE ID: RRF010 = VL041859.D RRF002 = VL041860.D RRF001 = VL041861.D
RRF0.5 = VL041862.D RRF0.1 = VL041863.D RRF.03 = VL041864.D

COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	1.508	1.644	1.746	1.790			1.642	7.8
Chloromethane	0.571	0.683	0.675	0.661			0.638	7.7
Vinyl Chloride	0.576	0.628	0.653	0.671	0.745	0.889	0.679	16
Bromomethane	0.265	0.337	0.315	0.390			0.320	14.8
Chloroethane	0.229	0.273	0.282	0.288			0.263	9.7
Tetrahydrofuran	0.454	0.506	0.502	0.531			0.488	7.3
Trichlorofluoromethane	1.485	1.794	1.734	1.818			1.687	8.3
1,1,2-Trichlorotrifluoroethane	1.207	1.442	1.405	1.480			1.365	8.3
Dichlorotetrafluoroethane	1.306	1.541	1.443	1.495			1.427	6.8
tert-Butyl alcohol	1.708	1.995	2.023	2.095			1.914	9.1
Heptane	2.021	2.271	2.322	2.468			2.219	8.9
1,1-Dichloroethene	0.543	0.624	0.661	0.682			0.618	9.3
Acetone	1.220	1.818	1.970	2.132			1.687	24.2
Carbon Disulfide	1.513	1.729	1.682	1.742			1.651	5.9
Methyl tert-Butyl Ether	1.137	1.504	1.348	1.432			1.316	12.4
Methylene Chloride	0.477	0.589	0.650	0.678			0.575	16.1
trans-1,2-Dichloroethene	0.614	0.751	0.768	0.787			0.715	10.6
1,1-Dichloroethane	1.182	1.407	1.447	1.483			1.355	9.6
Cyclohexane	1.364	1.599	1.520	1.544			1.481	7.1
2-Butanone	0.753	0.893	0.861	0.886			0.831	8.1
Carbon Tetrachloride	0.732	0.786	0.762	0.733	0.734	0.939	0.777	9.5
cis-1,2-Dichloroethene	1.538	1.721	1.793	1.823			1.685	8
Chloroform	2.188	2.571	2.541	2.559			2.412	8.2
1,1,1-Trichloroethane	2.189	2.480	2.394	2.490	2.507	2.446	2.396	5.1
2,2,4-Trimethylpentane	1.829	2.044	2.049	2.057			1.960	6.3
Benzene	1.099	1.210	1.211	1.194			1.160	5.4
1,2-Dichloroethane	0.564	0.622	0.606	0.672			0.609	6.9
Trichloroethene	0.425	0.470	0.472	0.499	0.496	0.413	0.458	7.7
1,2-Dichloropropane	0.387	0.427	0.422	0.437			0.413	5.5
Bromodichloromethane	0.804	0.856	0.853	0.839			0.836	2.5

* 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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Lab Code: CHEM Case No.: Q1037 SAS No.: Q1037 SDG No.: Q1037

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COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
4-Methyl-2-Pentanone	1.108	1.228	1.237	1.246			1.186	5.9
Toluene	1.297	1.422	1.434	1.443			1.380	5.3
t-1,3-Dichloropropene	0.479	0.492	0.491	0.494			0.486	1.8
cis-1,3-Dichloropropene	0.608	0.625	0.640	0.641			0.624	2.7
1,1,2-Trichloroethane	0.399	0.447	0.452	0.460			0.434	6.1
Dibromochloromethane	0.656	0.696	0.634	0.637			0.658	3.8
1,2-Dibromoethane	0.562	0.619	0.616	0.619	0.550		0.590	5.3
Tetrachloroethene	0.381	0.428	0.430	0.445	0.499	0.547	0.444	13.6
Chlorobenzene	1.016	1.171	1.197	1.171			1.115	8
Ethyl Benzene	1.907	2.215	2.147	2.107			2.056	6.9
m/p-Xylene	1.486	1.735	1.715	1.679			1.625	7.3
o-Xylene	1.474	1.728	1.709	1.713			1.621	8.1
Styrene	0.769	0.858	0.815	0.846			0.809	5.5
Bromoform	0.583	0.610	0.565	0.522			0.575	5.9
1,1,2,2-Tetrachloroethane	0.883	1.032	0.991	1.015	1.102	0.917	0.973	8.7
2-Chlorotoluene	1.707	2.016	2.016	2.020			1.889	9.3
1,3,5-Trimethylbenzene	1.532	1.830	1.818	1.730			1.687	8.9
1,2,4-Trimethylbenzene	1.617	2.042	2.001	1.908			1.833	11.6
1,3-Dichlorobenzene	0.966	1.191	1.177	1.190			1.099	10.9
1,4-Dichlorobenzene	0.966	1.185	1.148	1.170			1.088	10.2
1,2-Dichlorobenzene	0.915	1.122	1.117	1.124			1.039	10.9
1,2,4-Trichlorobenzene	0.764	1.081	1.081	1.006			0.940	17.2
Hexachloro-1,3-Butadiene	0.714	1.009	1.015	0.999			0.893	17.7
1,3-Butadiene	0.574	0.710	0.742	0.982			0.724	22
Naphthalene	1.580	2.263	2.188	2.131	2.105		1.974	15.7
4-Ethyltoluene	1.817	2.181	2.130	2.031			1.987	9.2
1-Bromo-4-Fluorobenzene	0.801	0.809	0.803	0.806	0.797	0.806	0.802	0.8
Hexane	1.575	1.796	1.798	1.880			1.724	8.2
Allyl Chloride	0.944	1.113	1.123	1.212			1.079	9.8
1,4-Dioxane	188.872	214.076	211.579	230.969			207.520	8.3

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COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Methyl Methacrylate	0.451	0.478	0.483	0.511			0.475	5.2

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