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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q1172 SAS No.: Q1172 SDG No.: Q1172

Instrument ID: MSVOA_U Calibration Date(s): 02/10/2025 02/10/2025

Heated Purge: (Y/N) N Calibration Time(s): 12:59 15:33

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

LAB FILE ID: RRF0.5 = VU063219.D RRF001 = VU063220.D RRF002 = VU063221.D
RRF005 = VU063222.D RRF010 = VU063223.D RRF015 = VU063224.D

COMPOUND	RRF0.5	RRF001	RRF002	RRF005	RRF010	RRF015	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.326	0.362	0.329	0.325	0.305	0.302	0.325	6.7
Chloromethane	0.390	0.400	0.389	0.368	0.352	0.344	0.374	6.1
Vinyl Chloride	0.364	0.390	0.367	0.376	0.366	0.357	0.370	3.1
Bromomethane	0.198	0.201	0.125	0.189	0.191		0.181	17.6
Chloroethane	0.245	0.259	0.233	0.223	0.222	0.216	0.233	7.1
Tetrahydrofuran	0.046	0.046	0.049	0.044	0.051	0.046	0.047	5.9
Trichlorofluoromethane	0.426	0.473	0.452	0.443	0.423	0.416	0.439	4.8
1,1,2-Trichloro-1,2,2-trifluoroeth	0.259	0.272	0.253	0.250	0.231	0.230	0.249	6.5
tert-Butyl Alcohol		0.039	0.027	0.022	0.024	0.021	0.026	27
Diethyl Ether	0.223	0.231	0.215	0.218	0.216	0.203	0.218	4.2
1,1-Dichloroethene	0.256	0.274	0.253	0.250	0.248	0.241	0.254	4.3
Acrylonitrile	0.051	0.056	0.059	0.060	0.065	0.059	0.059	7.6
Acetone	0.050	0.047	0.044	0.042	0.047	0.040	0.045	8.4
Carbon Disulfide	0.944	0.945	0.880	0.869	0.861	0.822	0.887	5.5
Methyl tert-Butyl Ether	0.582	0.652	0.618	0.642	0.673	0.635	0.634	4.9
Methyl acrylate	0.118	0.146	0.150	0.157	0.165	0.153	0.148	10.9
Methylene Chloride	0.332	0.333	0.313	0.309	0.304	0.289	0.313	5.4
trans-1,2-Dichloroethene	0.292	0.305	0.287	0.288	0.287	0.279	0.290	3
1,1-Dichloroethane	0.523	0.592	0.552	0.549	0.538	0.520	0.546	4.8
Cyclohexane	0.415	0.423	0.423	0.457	0.453	0.460	0.439	4.6
2-Butanone	0.071	0.072	0.067	0.071	0.079	0.070	0.072	5.3
Carbon Tetrachloride	0.371	0.417	0.379	0.383	0.378	0.369	0.383	4.6
2,2-Dichloropropane	0.434	0.463	0.413	0.421	0.418	0.407	0.426	4.7
cis-1,2-Dichloroethene	0.297	0.332	0.306	0.316	0.316	0.310	0.313	3.7
Bromochloromethane	0.133	0.150	0.132	0.139	0.137	0.130	0.137	5.3
Chloroform	0.546	0.588	0.543	0.556	0.546	0.526	0.551	3.7
1,1,1-Trichloroethane	0.433	0.466	0.448	0.459	0.442	0.429	0.446	3.3
Methylcyclohexane	0.377	0.448	0.418	0.461	0.448	0.458	0.435	7.4
1,1-Dichloropropene	0.368	0.416	0.404	0.404	0.408	0.399	0.400	4.1
Propionitrile	0.016	0.020	0.023	0.022	0.025	0.024	0.022	14.5

* 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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RRF005 = VU063222.D RRF010 = VU063223.D RRF015 = VU063224.D

COMPOUND	RRF0.5	RRF001	RRF002	RRF005	RRF010	RRF015	$\overline{RRF}$	% RSD
Benzene	1.163	1.280	1.242	1.256	1.232	1.199	1.229	3.4
1,2-Dichloroethane	0.351	0.371	0.358	0.357	0.355	0.335	0.355	3.3
Trichloroethene	0.287	0.311	0.294	0.290	0.291	0.281	0.292	3.4
1,2-Dichloropropane	0.314	0.333	0.319	0.323	0.326	0.314	0.322	2.3
1-Chlorobutane	0.484	0.555	0.547	0.578	0.565	0.552	0.547	5.9
Dibromomethane	0.161	0.173	0.163	0.164	0.163	0.153	0.163	4
Bromodichloromethane	0.332	0.402	0.386	0.393	0.391	0.371	0.379	6.7
4-Methyl-2-Pentanone	0.147	0.155	0.166	0.176	0.197	0.182	0.171	10.6
Toluene	0.607	0.705	0.706	0.745	0.744	0.732	0.707	7.4
t-1,3-Dichloropropene	0.284	0.343	0.343	0.362	0.383	0.368	0.347	9.9
cis-1,3-Dichloropropene	0.378	0.427	0.430	0.435	0.459	0.444	0.429	6.4
1,1,2-Trichloroethane	0.211	0.225	0.219	0.221	0.228	0.214	0.220	3
1,3-Dichloropropane	0.354	0.408	0.393	0.400	0.405	0.379	0.390	5.2
2-Hexanone	0.094	0.109	0.115	0.118	0.136	0.128	0.117	12.6
Dibromochloromethane	0.238	0.257	0.246	0.256	0.267	0.252	0.253	4
1,2-Dibromoethane	0.194	0.206	0.202	0.209	0.219	0.205	0.206	4
Tetrachloroethene	0.242	0.258	0.236	0.250	0.234	0.225	0.241	4.9
Chlorobenzene	0.676	0.752	0.745	0.775	0.768	0.758	0.746	4.8
1,1,1,2-Tetrachloroethane	0.254	0.279	0.264	0.269	0.274	0.268	0.268	3.2
Hexachloroethane	0.179	0.215	0.214	0.210	0.222	0.232	0.212	8.5
Ethyl Benzene	1.075	1.229	1.246	1.363	1.403	1.399	1.286	10
m/p-Xylenes	0.374	0.444	0.475	0.526	0.536	0.528	0.480	13.2
o-Xylene	0.374	0.449	0.469	0.502	0.514	0.513	0.470	11.5
Styrene	0.562	0.675	0.721	0.815	0.856	0.862	0.748	15.8
Bromoform	0.127	0.139	0.142	0.145	0.156	0.151	0.143	7.1
Isopropylbenzene	0.889	1.035	1.086	1.184	1.212	1.226	1.106	11.7
1,1,2,2-Tetrachloroethane	0.260	0.304	0.306	0.292	0.310	0.303	0.296	6.2
1,2,3-Trichloropropane	0.220	0.222	0.246	0.213	0.204	0.230	0.222	6.5
Bromobenzene	0.253	0.303	0.295	0.308	0.314	0.314	0.298	7.8
n-propylbenzene	0.242	0.286	0.314	0.344	0.354	0.359	0.317	14.5

* Compounds with required minimum RRF and maximum %RSD values.
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COMPOUND	RRF0.5	RRF001	RRF002	RRF005	RRF010	RRF015	$\overline{RRF}$	% RSD
2-Chlorotoluene	0.228	0.278	0.292	0.315	0.316	0.321	0.292	12.1
1,3,5-Trimethylbenzene	0.741	0.939	1.024	1.125	1.148	1.169	1.024	16
4-Chlorotoluene	0.237	0.292	0.297	0.320	0.321	0.327	0.299	11.2
tert-Butylbenzene	0.854	0.987	1.030	1.074	1.118	1.153	1.036	10.3
1,2,4-Trimethylbenzene	0.709	0.905	1.009	1.126	1.157	1.192	1.016	18.1
sec-Butylbenzene	1.016	1.226	1.318	1.415	1.442	1.498	1.319	13.4
p-Isopropyltoluene	0.745	0.942	1.033	1.137	1.168	1.222	1.041	17
1,3-Dichlorobenzene	0.531	0.551	0.589	0.589	0.596	0.611	0.578	5.2
1,4-Dichlorobenzene	0.485	0.514	0.581	0.593	0.601	0.617	0.565	9.4
n-Butylbenzene	0.693	0.822	0.907	0.992	1.044	1.142	0.933	17.3
1,2-Dichlorobenzene	0.481	0.538	0.571	0.563	0.574	0.604	0.555	7.6
1,2-Dibromo-3-Chloropropane	0.031	0.041	0.039	0.043	0.049	0.046	0.042	14.6
1,2,4-Trichlorobenzene	0.206	0.246	0.253	0.282	0.308	0.331	0.271	16.7
Hexachlorobutadiene	0.186	0.197	0.203	0.191	0.182	0.202	0.194	4.4
Naphthalene	0.315	0.335	0.379	0.441	0.556	0.592	0.436	26.5
1,2,3-Trichlorobenzene	0.219	0.237	0.239	0.275	0.303	0.318	0.265	15.1
Nitrobenzene		0.004	0.006	0.007	0.009	0.009	0.007	30.3
1,2-Dichlorobenzene-d4	0.314	0.328	0.350	0.336	0.344	0.388	0.343	7.4
4-Bromofluorobenzene	0.302	0.311	0.330	0.321	0.358	0.356	0.330	7
Iodomethane		0.411	0.389	0.411	0.405	0.378	0.399	3.6
Allyl Chloride	0.340	0.390	0.369	0.364	0.365	0.357	0.364	4.5
t-1,4-Dichloro-2-butene	0.071	0.084	0.088	0.072	0.084	0.082	0.080	8.8
Methacrylonitrile	0.062	0.067	0.079	0.087	0.098	0.091	0.080	17.3
Ethyl methacrylate	0.194	0.227	0.244	0.270	0.314	0.296	0.258	17.4
Isopropyl Ether	0.718	0.786	0.766	0.785	0.814	0.808	0.779	4.5
Methyl methacrylate	0.112	0.126	0.128	0.148	0.161	0.147	0.137	13.3

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