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.: Q1370 SAS No.: Q1370 SDG No.: Q1370

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

Heated Purge: (Y/N) N Calibration Time(s): 10:25 12:28

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

LAB FILE ID: RRF001 = VX044868.D RRF005 = VX044869.D RRF020 = VX044870.D
RRF050 = VX044871.D RRF100 = VX044872.D RRF150 = VX044873.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.723	0.669	0.716	0.700	0.706	0.693	0.701	2.7
Chloromethane	0.958	0.860	0.862	0.843	0.805	0.793	0.854	6.9
Vinyl Chloride	0.839	0.846	0.847	0.808	0.807	0.814	0.827	2.3
Ethyl Acetate	0.477	0.534	0.546	0.527	0.516	0.528	0.522	4.6
Bromomethane		0.248	0.252	0.249	0.242	0.246	0.247	1.4
Chloroethane	0.500	0.288	0.280	0.341	0.249	0.181	0.307	35.4
Trichlorofluoromethane	1.062	1.066	1.096	1.029	1.013	1.008	1.046	3.3
1,1,2-Trichlorotrifluoroethane	0.583	0.647	0.668	0.626	0.631	0.637	0.632	4.5
Tert butyl alcohol		0.148	0.138	0.136	0.128	0.129	0.136	5.9
1,1-Dichloroethene	0.647	0.639	0.661	0.630	0.632	0.657	0.644	2
Acrolein		0.143	0.131	0.141	0.139	0.145	0.140	4
Acrylonitrile	0.337	0.354	0.380	0.379	0.360	0.364	0.363	4.4
Acetone	0.305	0.292	0.298	0.293	0.285	0.292	0.294	2.3
Carbon Disulfide	1.689	1.732	1.786	1.762	1.789	1.846	1.767	3
Methyl tert-butyl Ether	1.941	2.065	2.130	2.046	2.011	2.110	2.050	3.4
Methyl Acetate	0.882	0.901	0.926	0.946	0.922	0.995	0.928	4.2
Methylene Chloride	0.747	0.717	0.741	0.704	0.695	0.720	0.721	2.8
trans-1,2-Dichloroethene	0.608	0.622	0.657	0.640	0.633	0.644	0.634	2.7
Vinyl Acetate	1.540	1.750	1.892	1.860	1.843	1.892	1.796	7.6
1,1-Dichloroethane	1.155	1.257	1.292	1.227	1.209	1.257	1.233	3.9
Cyclohexane		1.154	1.174	1.121	1.107	1.127	1.137	2.4
2-Butanone	0.422	0.472	0.504	0.506	0.477	0.487	0.478	6.4
Carbon Tetrachloride	0.457	0.466	0.478	0.453	0.445	0.459	0.460	2.4
2,2-Dichloropropane	0.957	0.982	1.000	0.952	0.959	1.017	0.978	2.7
cis-1,2-Dichloroethene	0.680	0.783	0.812	0.758	0.758	0.779	0.762	5.9
Bromochloromethane	0.634	0.579	0.607	0.584	0.572	0.579	0.593	4
Chloroform	1.167	1.209	1.268	1.169	1.153	1.208	1.196	3.5
1,1,1-Trichloroethane	1.014	1.003	1.051	1.005	0.984	1.028	1.014	2.3
Methylcyclohexane	0.509	0.571	0.667	0.622	0.634	0.635	0.606	9.4
1,1-Dichloropropene	0.472	0.467	0.490	0.463	0.457	0.465	0.469	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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GC Column: DB-624UI ID: 0.18 (mm)

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COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Benzene	1.370	1.488	1.577	1.470	1.429	1.453	1.465	4.7
1,2-Dichloroethane	0.417	0.465	0.502	0.472	0.462	0.482	0.467	6.1
Trichloroethene	0.293	0.340	0.367	0.335	0.332	0.343	0.335	7.2
1,2-Dichloropropane	0.343	0.354	0.389	0.367	0.360	0.372	0.364	4.3
Dibromomethane	0.236	0.245	0.270	0.255	0.252	0.258	0.253	4.5
Bromodichloromethane	0.428	0.481	0.514	0.500	0.500	0.513	0.489	6.6
4-Methyl-2-Pentanone	0.439	0.514	0.562	0.554	0.506	0.498	0.512	8.6
Toluene	0.776	0.872	0.957	0.898	0.866	0.864	0.872	6.7
t-1,3-Dichloropropene	0.417	0.451	0.518	0.514	0.528	0.543	0.495	10
cis-1,3-Dichloropropene	0.452	0.511	0.587	0.577	0.587	0.599	0.552	10.5
1,1,2-Trichloroethane	0.307	0.342	0.362	0.341	0.331	0.329	0.335	5.4
1,3-Dichloropropane	0.531	0.586	0.641	0.605	0.579	0.578	0.587	6.1
2-Chloroethyl Vinyl ether	0.213	0.249	0.284	0.288	0.281	0.281	0.266	11.2
2-Hexanone	0.313	0.360	0.406	0.404	0.369	0.362	0.369	9.3
Dibromochloromethane	0.317	0.342	0.381	0.373	0.368	0.370	0.359	6.7
1,2-Dibromoethane	0.302	0.330	0.367	0.350	0.345	0.345	0.340	6.5
Tetrachloroethene	0.306	0.311	0.343	0.310	0.307	0.314	0.315	4.4
Chlorobenzene	0.969	1.093	1.140	1.096	1.071	1.076	1.074	5.3
1,1,1,2-Tetrachloroethane	0.302	0.338	0.365	0.354	0.355	0.360	0.346	6.8
Hexachloroethane	0.533	0.589	0.629	0.615	0.643	0.689	0.616	8.5
Ethyl Benzene	1.690	1.873	2.021	1.935	1.923	1.929	1.895	5.9
m/p-Xylenes	0.616	0.700	0.754	0.724	0.706	0.694	0.699	6.6
o-Xylene	0.661	0.721	0.747	0.707	0.691	0.681	0.701	4.4
Styrene	0.909	1.124	1.249	1.199	1.161	1.139	1.130	10.4
Bromoform	0.186	0.247	0.272	0.280	0.276	0.287	0.258	14.7
Isopropylbenzene	3.735	4.012	4.347	4.045	3.940	4.076	4.026	4.9
1,1,2,2-Tetrachloroethane	1.429	1.403	1.438	1.366	1.305	1.360	1.383	3.6
1,2,3-Trichloropropane	1.046	1.153	1.141	1.106	1.085	1.120	1.109	3.5
Bromobenzene	0.847	0.920	0.978	0.911	0.897	0.923	0.913	4.6
n-propylbenzene	4.049	4.600	4.974	4.723	4.699	4.837	4.647	6.9

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COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
2-Chlorotoluene	2.859	2.860	3.034	2.842	2.721	2.820	2.856	3.6
1,3,5-Trimethylbenzene	2.981	3.326	3.543	3.319	3.201	3.233	3.267	5.6
4-Chlorotoluene	2.958	3.156	3.320	3.193	3.116	3.214	3.160	3.8
tert-Butylbenzene	3.097	3.350	3.539	3.312	3.236	3.296	3.305	4.4
1,2,4-Trimethylbenzene	2.687	3.252	3.535	3.359	3.220	3.295	3.225	8.9
sec-Butylbenzene	3.692	4.025	4.421	4.146	4.102	4.169	4.093	5.8
p-Isopropyltoluene	2.844	3.229	3.547	3.402	3.325	3.401	3.291	7.4
1,3-Dichlorobenzene	1.616	1.669	1.741	1.679	1.663	1.703	1.678	2.5
1,4-Dichlorobenzene	1.662	1.712	1.762	1.686	1.660	1.701	1.697	2.2
n-Butylbenzene	2.138	2.696	3.087	3.105	3.194	3.251	2.912	14.6
1,2-Dichlorobenzene	1.512	1.713	1.763	1.666	1.604	1.639	1.650	5.3
1,2-Dibromo-3-Chloropropane	0.202	0.236	0.268	0.258	0.261	0.289	0.252	11.9
1,2,4-Trichlorobenzene	0.860	0.934	1.013	1.013	1.057	1.112	0.998	9
Hexachlorobutadiene	0.383	0.376	0.416	0.383	0.408	0.411	0.396	4.4
Naphthalene	2.824	3.432	3.879	3.752	3.771	3.991	3.608	11.8
1,2,3-Trichlorobenzene	0.858	0.952	1.042	1.031	1.043	1.109	1.006	8.7
1,2-Dichloroethane-d4		0.764	0.718	0.723	0.707	0.747	0.732	3.2
Dibromofluoromethane		0.335	0.322	0.320	0.320	0.328	0.325	2
Toluene-d8		1.239	1.249	1.239	1.208	1.212	1.229	1.5
4-Bromofluorobenzene		0.404	0.410	0.431	0.415	0.412	0.414	2.5

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