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

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q1006 SAS No.: Q1006 SDG No.: Q1006

Instrument ID: MSVOA_X Calibration Date(s): 01/07/2025 01/07/2025

Heated Purge: (Y/N) N Calibration Time(s): 10:06 12:00

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

LAB FILE ID: RRF001 = VX044596.D RRF005 = VX044597.D RRF020 = VX044598.D
RRF050 = VX044599.D RRF100 = VX044600.D RRF150 = VX044601.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.686	0.708	0.713	0.779	0.772	0.682	0.723	5.9
Chloromethane	0.736	0.794	0.736	0.736	0.703	0.621	0.721	7.9
Vinyl Chloride	0.629	0.704	0.696	0.710	0.696	0.624	0.676	5.8
Ethyl Acetate	0.414	0.453	0.495	0.491	0.492	0.376	0.454	10.9
Bromomethane		0.380	0.364	0.369	0.369	0.270	0.350	13
Chloroethane	0.482	0.371	0.371	0.324	0.387		0.387	15.1
Trichlorofluoromethane	0.982	1.037	0.991	1.084	1.092	0.855	1.007	8.7
1,1,2-Trichlorotrifluoroethane	0.557	0.586	0.583	0.588	0.596	0.554	0.577	3.1
Tert butyl alcohol		0.113	0.096	0.101	0.102	0.084	0.099	10.6
1,1-Dichloroethene	0.539	0.587	0.549	0.562	0.565	0.553	0.559	3
Acrolein		0.133	0.128	0.133	0.142	0.120	0.131	6.2
Acrylonitrile	0.265	0.301	0.299	0.306	0.295	0.251	0.286	7.9
Acetone	0.310	0.215	0.270	0.275	0.263	0.192	0.254	17
Carbon Disulfide	0.909	1.045	1.058	1.220	1.356	1.352	1.157	15.7
Methyl tert-butyl Ether	1.768	1.979	1.965	2.051	2.012	1.726	1.917	7.1
Methyl Acetate	0.772	0.799	0.762	0.776	0.774	0.617	0.750	8.8
Methylene Chloride	0.687	0.657	0.661	0.657	0.629	0.598	0.648	4.7
trans-1,2-Dichloroethene	0.554	0.579	0.580	0.580	0.588	0.562	0.574	2.3
Vinyl Acetate	1.181	1.533	1.673	1.779	1.790	1.322	1.546	16.2
1,1-Dichloroethane	1.017	1.181	1.171	1.182	1.156	0.980	1.114	8.2
Cyclohexane		0.912	0.950	0.953	0.942	0.818	0.915	6.2
2-Butanone	0.295	0.393	0.403	0.409	0.399	0.303	0.367	14.4
Carbon Tetrachloride	0.467	0.457	0.491	0.516	0.534	0.488	0.492	5.9
2,2-Dichloropropane	0.943	0.957	0.992	1.008	1.024	0.855	0.963	6.3
cis-1,2-Dichloroethene	0.601	0.763	0.715	0.731	0.711	0.679	0.700	7.9
Bromochloromethane	0.521	0.542	0.550	0.548	0.528	0.423	0.519	9.3
Chloroform	1.142	1.316	1.258	1.253	1.210	1.028	1.201	8.5
1,1,1-Trichloroethane	0.848	1.057	1.051	1.087	1.084	0.939	1.011	9.5
Methylcyclohexane	0.512	0.566	0.572	0.580	0.592	0.571	0.566	4.9
1,1-Dichloropropene	0.393	0.457	0.461	0.466	0.464	0.420	0.443	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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GC Column: DB-624UI ID: 0.18 (mm)

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COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Benzene	1.291	1.449	1.463	1.448	1.399	1.324	1.396	5.2
1,2-Dichloroethane	0.473	0.586	0.603	0.599	0.577	0.437	0.546	13.2
Trichloroethene	0.355	0.364	0.358	0.349	0.353	0.362	0.357	1.6
1,2-Dichloropropane	0.314	0.340	0.363	0.362	0.353	0.310	0.340	6.9
Dibromomethane	0.254	0.268	0.277	0.276	0.269	0.244	0.265	4.9
Bromodichloromethane	0.401	0.472	0.503	0.524	0.530	0.459	0.482	10
4-Methyl-2-Pentanone	0.361	0.455	0.486	0.491	0.477	0.354	0.437	14.4
Toluene	0.736	0.867	0.896	0.878	0.865	0.811	0.842	7
t-1,3-Dichloropropene	0.330	0.416	0.486	0.519	0.537	0.473	0.460	16.6
cis-1,3-Dichloropropene	0.426	0.480	0.533	0.570	0.575	0.521	0.517	11
1,1,2-Trichloroethane	0.308	0.345	0.349	0.345	0.326	0.308	0.330	5.7
1,3-Dichloropropane	0.464	0.584	0.609	0.598	0.566	0.506	0.554	10.4
2-Chloroethyl Vinyl ether	0.200	0.226	0.248	0.263	0.264	0.227	0.238	10.4
2-Hexanone	0.232	0.310	0.348	0.359	0.348	0.259	0.309	17.1
Dibromochloromethane	0.231	0.305	0.339	0.368	0.371	0.362	0.329	16.4
1,2-Dibromoethane	0.282	0.340	0.359	0.349	0.344	0.327	0.333	8.2
Tetrachloroethene	0.360	0.370	0.362	0.346	0.338	0.345	0.354	3.5
Chlorobenzene	0.977	1.089	1.086	1.088	1.063	1.065	1.061	4
1,1,1,2-Tetrachloroethane	0.286	0.341	0.366	0.370	0.379	0.373	0.352	9.9
Hexachloroethane	0.496	0.427	0.454	0.518	0.558	0.559	0.502	10.7
Ethyl Benzene	1.555	1.854	1.919	1.928	1.895	1.783	1.822	7.8
m/p-Xylenes	0.518	0.677	0.713	0.715	0.711	0.684	0.670	11.4
o-Xylene	0.636	0.650	0.696	0.696	0.693	0.683	0.676	3.8
Styrene	0.790	1.026	1.156	1.187	1.181	1.145	1.081	14.3
Bromoform	0.153	0.200	0.225	0.248	0.271	0.293	0.232	21.9
Isopropylbenzene	3.392	3.801	3.892	3.885	3.740	3.516	3.704	5.6
1,1,2,2-Tetrachloroethane	1.145	1.320	1.227	1.255	1.166	1.051	1.194	7.9
1,2,3-Trichloropropane	1.014	1.055	1.038	1.043	0.996	0.869	1.002	6.9
Bromobenzene	0.799	0.974	0.910	0.926	0.894	0.897	0.900	6.4
n-propylbenzene	3.430	4.370	4.397	4.501	4.369	3.967	4.172	9.8

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COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
2-Chlorotoluene	2.756	2.882	2.777	2.787	2.629	2.391	2.704	6.4
1,3,5-Trimethylbenzene	2.473	3.331	3.270	3.304	3.160	2.891	3.071	10.9
4-Chlorotoluene	2.847	3.223	3.173	3.200	3.064	2.744	3.042	6.6
tert-Butylbenzene	2.630	3.226	3.104	3.225	3.121	3.043	3.058	7.2
1,2,4-Trimethylbenzene	2.634	3.061	3.354	3.315	3.152	2.995	3.085	8.5
sec-Butylbenzene	3.131	3.853	3.913	3.921	3.842	3.688	3.725	8.1
p-Isopropyltoluene	2.484	3.154	3.271	3.369	3.298	3.175	3.125	10.4
1,3-Dichlorobenzene	1.456	1.659	1.683	1.688	1.629	1.653	1.628	5.4
1,4-Dichlorobenzene	1.762	1.780	1.665	1.685	1.637	1.646	1.696	3.6
n-Butylbenzene	1.967	2.497	2.753	2.929	2.977	2.711	2.639	14.1
1,2-Dichlorobenzene	1.560	1.699	1.669	1.699	1.612	1.630	1.645	3.3
1,2-Dibromo-3-Chloropropane	0.197	0.208	0.221	0.249	0.257	0.226	0.226	10.2
1,2,4-Trichlorobenzene	0.818	0.899	0.942	0.995	1.024	1.123	0.967	10.9
Hexachlorobutadiene	0.363	0.403	0.391	0.407	0.412	0.439	0.403	6.2
Naphthalene	2.119	2.828	3.227	3.403	3.436	3.703	3.120	18.2
1,2,3-Trichlorobenzene	0.849	0.922	0.992	1.019	1.022	1.124	0.988	9.5
1,2-Dichloroethane-d4		0.919	0.850	0.817	0.819	0.626	0.806	13.5
Dibromofluoromethane		0.354	0.347	0.335	0.348	0.330	0.343	3
Toluene-d8		1.192	1.213	1.156	1.185	1.109	1.171	3.5
4-Bromofluorobenzene		0.404	0.416	0.415	0.432	0.400	0.413	3

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