

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02
 Lab Code: CHEM Case No.: Q1403 SAS No.: Q1403 SDG No.: Q1403
 Instrument ID: MSVOA_X Calibration Date(s): 02/28/2025 02/28/2025
 Heated Purge: (Y/N) N Calibration Time(s): 01:27 03:47
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX045068.D		RRF005 = VX045069.D		RRF020 = VX045070.D			
		RRF050 = VX045071.D		RRF100 = VX045072.D		RRF150 = VX045073.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.624	0.646	0.646	0.627	0.626	0.607	0.629	2.4	
Chloromethane	0.755	0.821	0.828	0.753	0.721	0.744	0.770	5.7	
Vinyl Chloride	0.773	0.755	0.774	0.761	0.765	0.758	0.764	1	
Ethyl Acetate	0.589	0.538	0.607	0.606	0.609	0.596	0.591	4.5	
Bromomethane		0.337	0.298	0.292	0.284	0.291	0.300	7	
Chloroethane	0.373	0.421	0.366	0.373	0.297	0.286	0.352	14.5	
Trichlorofluoromethane	0.978	1.061	1.050	1.050	0.982	0.948	1.012	4.7	
1,1,2-Trichlorotrifluoroethane	0.526	0.613	0.595	0.594	0.596	0.563	0.581	5.4	
Tert butyl alcohol		0.189	0.161	0.134	0.133	0.136	0.151	16.2	
1,1-Dichloroethene	0.609	0.620	0.612	0.623	0.620	0.603	0.614	1.3	
Acrolein		0.162	0.173	0.174	0.178	0.184	0.174	4.5	
Acrylonitrile	0.396	0.398	0.432	0.410	0.387	0.399	0.404	3.9	
Acetone	0.414	0.363	0.384	0.351	0.345	0.356	0.369	7	
Carbon Disulfide	1.584	1.582	1.587	1.660	1.708	1.698	1.636	3.6	
Methyl tert-butyl Ether	1.955	1.913	2.127	2.083	2.132	2.158	2.061	5	
Methyl Acetate	0.954	0.835	0.903	0.867	0.869	0.899	0.888	4.6	
Methylene Chloride	0.806	0.730	0.752	0.698	0.694	0.706	0.731	5.8	
trans-1,2-Dichloroethene	0.540	0.619	0.603	0.631	0.634	0.616	0.607	5.7	
Vinyl Acetate	1.486	1.655	1.961	1.973	2.012	2.049	1.856	12.4	
1,1-Dichloroethane	1.200	1.223	1.280	1.242	1.270	1.264	1.247	2.5	
Cyclohexane		1.021	1.087	1.108	1.142	1.052	1.082	4.3	
2-Butanone	0.476	0.545	0.610	0.579	0.553	0.570	0.555	8.1	
Carbon Tetrachloride	0.463	0.463	0.447	0.468	0.489	0.463	0.465	3	
2,2-Dichloropropane	0.519	0.562	0.588	0.597	0.617	0.626	0.585	6.7	
cis-1,2-Dichloroethene	0.687	0.746	0.765	0.762	0.767	0.769	0.749	4.2	
Bromochloromethane	0.557	0.633	0.613	0.603	0.563	0.596	0.594	5	
Chloroform	1.206	1.247	1.278	1.246	1.230	1.225	1.239	2	
1,1,1-Trichloroethane	0.908	0.992	1.009	1.024	1.044	1.025	1.000	4.8	
Methylcyclohexane	0.464	0.530	0.560	0.585	0.607	0.550	0.549	9.1	
1,1-Dichloropropene	0.446	0.462	0.444	0.469	0.476	0.455	0.459	2.8	

* Compounds with required minimum RRF and maximum %RSD values.
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COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Benzene	1.321	1.459	1.491	1.496	1.497	1.424	1.448	4.7	
1,2-Dichloroethane	0.487	0.525	0.545	0.528	0.524	0.520	0.521	3.6	
Trichloroethene	0.319	0.351	0.339	0.341	0.354	0.336	0.340	3.7	
1,2-Dichloropropane	0.354	0.378	0.382	0.371	0.376	0.373	0.372	2.7	
Dibromomethane	0.236	0.265	0.272	0.269	0.269	0.268	0.263	5.1	
Bromodichloromethane	0.478	0.503	0.536	0.524	0.528	0.528	0.516	4.2	
4-Methyl-2-Pentanone	0.535	0.570	0.647	0.610	0.579	0.579	0.587	6.5	
Toluene	0.716	0.872	0.892	0.898	0.874	0.845	0.849	8	
t-1,3-Dichloropropene	0.304	0.389	0.436	0.469	0.490	0.502	0.431	17.3	
cis-1,3-Dichloropropene	0.404	0.463	0.509	0.535	0.555	0.553	0.503	11.8	
1,1,2-Trichloroethane	0.346	0.348	0.371	0.356	0.341	0.336	0.350	3.6	
1,3-Dichloropropane	0.560	0.623	0.643	0.620	0.597	0.588	0.605	4.9	
2-Chloroethyl Vinyl ether	0.218	0.239	0.271	0.284	0.273	0.270	0.259	9.7	
2-Hexanone	0.349	0.412	0.476	0.448	0.431	0.436	0.425	10.1	
Dibromochloromethane	0.305	0.349	0.390	0.384	0.385	0.380	0.366	9	
1,2-Dibromoethane	0.311	0.352	0.371	0.356	0.355	0.350	0.349	5.7	
Tetrachloroethene	0.315	0.326	0.319	0.324	0.329	0.309	0.320	2.3	
Chlorobenzene	0.968	1.054	1.090	1.092	1.100	1.045	1.058	4.7	
1,1,1,2-Tetrachloroethane	0.337	0.331	0.357	0.356	0.372	0.362	0.352	4.4	
Hexachloroethane	0.470	0.498	0.568	0.605	0.633	0.633	0.568	12.3	
Ethyl Benzene	1.566	1.794	1.889	1.952	1.972	1.888	1.843	8.1	
m/p-Xylenes	0.555	0.672	0.711	0.724	0.715	0.673	0.675	9.3	
o-Xylene	0.609	0.689	0.702	0.706	0.707	0.670	0.681	5.5	
Styrene	0.879	1.060	1.170	1.181	1.183	1.134	1.101	10.7	
Bromoform	0.209	0.234	0.276	0.276	0.300	0.300	0.266	13.9	
Isopropylbenzene	3.397	4.034	3.999	4.135	4.006	3.845	3.903	6.8	
1,1,2,2-Tetrachloroethane	1.395	1.479	1.513	1.419	1.391	1.396	1.432	3.6	
1,2,3-Trichloropropane	1.181	1.201	1.193	1.147	1.131	1.130	1.164	2.7	
Bromobenzene	0.899	0.947	0.939	0.939	0.910	0.891	0.921	2.6	
n-propylbenzene	3.451	4.375	4.577	4.805	4.696	4.548	4.409	11.1	

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COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
2-Chlorotoluene	2.788	2.888	2.828	2.869	2.770	2.702	2.808	2.4	
1,3,5-Trimethylbenzene	2.611	3.211	3.373	3.384	3.224	3.131	3.156	9	
4-Chlorotoluene	2.800	3.015	3.078	3.234	3.140	3.092	3.060	4.8	
tert-Butylbenzene	3.029	3.256	3.342	3.375	3.292	3.160	3.242	4	
1,2,4-Trimethylbenzene	2.646	3.202	3.380	3.378	3.258	3.188	3.175	8.6	
sec-Butylbenzene	3.000	3.847	4.137	4.215	4.125	3.978	3.884	11.6	
p-Isopropyltoluene	2.511	2.986	3.266	3.424	3.369	3.275	3.139	10.9	
1,3-Dichlorobenzene	1.502	1.652	1.710	1.668	1.675	1.649	1.643	4.4	
1,4-Dichlorobenzene	1.605	1.702	1.665	1.687	1.669	1.643	1.662	2.1	
n-Butylbenzene	1.905	2.359	2.788	3.013	3.099	3.057	2.703	17.7	
1,2-Dichlorobenzene	1.479	1.695	1.735	1.668	1.687	1.622	1.648	5.5	
1,2-Dibromo-3-Chloropropane	0.237	0.243	0.285	0.289	0.300	0.320	0.279	11.6	
1,2,4-Trichlorobenzene	0.668	0.821	0.978	1.009	1.074	1.080	0.938	17.3	
Hexachlorobutadiene	0.356	0.369	0.390	0.392	0.406	0.395	0.385	4.8	
Naphthalene	2.573	3.115	3.866	3.902	4.091	4.082	3.605	17.2	
1,2,3-Trichlorobenzene	0.747	0.897	1.032	1.059	1.107	1.096	0.990	14.2	
1,2-Dichloroethane-d4		0.836	0.784	0.757	0.783	0.817	0.795	3.9	
Dibromofluoromethane		0.329	0.335	0.329	0.340	0.338	0.334	1.5	
Toluene-d8		1.237	1.191	1.210	1.219	1.203	1.212	1.4	
4-Bromofluorobenzene		0.383	0.393	0.402	0.410	0.421	0.402	3.7	

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