

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: Chem02
 Lab Code: CHEM Case No.: Q1837 SAS No.: Q1837 SDG No.:
 Instrument ID: MSVOA_X Calibration Date(s): 04/01/2025 04/01/2025
 Heated Purge: (Y/N) N Calibration Time(s): 17:06 19:02
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX045525.D		RRF005 = VX045526.D		RRF020 = VX045527.D			
		RRF050 = VX045528.D		RRF100 = VX045529.D		RRF150 = VX045530.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.615	0.695	0.700	0.820	0.837	0.820	0.748	12.1	
Chloromethane	0.764	0.734	0.777	0.784	0.815	0.734	0.768	4.1	
Vinyl Chloride	0.671	0.662	0.701	0.716	0.738	0.730	0.703	4.4	
Ethyl Acetate	0.582	0.565	0.609	0.623	0.629	0.614	0.604	4.1	
Bromomethane		0.342	0.327	0.330	0.341	0.327	0.333	2.2	
Chloroethane	0.378	0.397	0.390	0.398	0.355	0.319	0.373	8.3	
Trichlorofluoromethane	1.051	0.999	1.075	1.086	1.089	0.989	1.048	4.2	
1,1,2-Trichlorotrifluoroethane	0.575	0.599	0.635	0.621	0.621	0.634	0.614	3.7	
Tert butyl alcohol		0.111	0.124	0.127	0.128	0.124	0.123	5.4	
1,1-Dichloroethene	0.563	0.588	0.612	0.604	0.618	0.616	0.600	3.5	
Acrolein		0.176	0.161	0.167	0.170	0.172	0.169	3.4	
Acrylonitrile	0.356	0.382	0.413	0.407	0.394	0.376	0.388	5.4	
Acetone	0.400	0.369	0.387	0.378	0.365	0.355	0.375	4.3	
Carbon Disulfide	1.334	1.327	1.434	1.553	1.604	1.642	1.483	9.2	
Methyl tert-butyl Ether	1.915	1.964	2.169	2.118	2.217	2.216	2.100	6.2	
Methyl Acetate	0.901	0.863	0.864	0.857	0.855	0.846	0.864	2.2	
Methylene Chloride	0.692	0.695	0.726	0.709	0.705	0.690	0.703	2	
trans-1,2-Dichloroethene	0.574	0.594	0.636	0.624	0.621	0.630	0.613	3.9	
Vinyl Acetate	1.542	1.693	2.005	2.087	2.147	2.156	1.938	13.3	
1,1-Dichloroethane	1.211	1.240	1.318	1.269	1.283	1.292	1.269	3	
Cyclohexane		1.044	1.148	1.123	1.145	1.149	1.122	4	
2-Butanone	0.474	0.537	0.582	0.586	0.571	0.548	0.550	7.5	
Carbon Tetrachloride	0.450	0.497	0.521	0.536	0.545	0.556	0.518	7.5	
2,2-Dichloropropane	0.676	0.757	0.802	0.847	0.903	0.933	0.820	11.7	
cis-1,2-Dichloroethene	0.762	0.696	0.760	0.751	0.754	0.760	0.747	3.4	
Bromochloromethane	0.671	0.608	0.617	0.596	0.610	0.576	0.613	5.2	
Chloroform	1.244	1.309	1.348	1.315	1.309	1.309	1.306	2.6	
1,1,1-Trichloroethane	1.028	1.052	1.120	1.109	1.153	1.167	1.105	5	
Methylcyclohexane	0.519	0.527	0.596	0.622	0.628	0.632	0.587	8.8	
1,1-Dichloropropene	0.477	0.443	0.474	0.485	0.496	0.499	0.479	4.3	

* Compounds with required minimum RRF and maximum %RSD values.
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COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Benzene	1.414	1.416	1.519	1.481	1.483	1.465	1.463	2.8
1,2-Dichloroethane	0.533	0.585	0.649	0.622	0.620	0.617	0.604	6.7
Trichloroethene	0.349	0.322	0.356	0.351	0.351	0.356	0.348	3.7
1,2-Dichloropropane	0.309	0.365	0.388	0.376	0.379	0.374	0.365	7.8
Dibromomethane	0.237	0.287	0.297	0.292	0.286	0.282	0.280	7.8
Bromodichloromethane	0.521	0.519	0.576	0.572	0.587	0.583	0.560	5.6
4-Methyl-2-Pentanone	0.499	0.578	0.661	0.663	0.647	0.589	0.606	10.6
Toluene	0.817	0.866	0.939	0.910	0.905	0.875	0.885	4.8
t-1,3-Dichloropropene	0.316	0.400	0.465	0.508	0.555	0.558	0.467	20.3
cis-1,3-Dichloropropene	0.371	0.474	0.546	0.568	0.597	0.600	0.526	16.9
1,1,2-Trichloroethane	0.337	0.346	0.376	0.359	0.358	0.340	0.353	4.1
1,3-Dichloropropane	0.555	0.614	0.652	0.633	0.630	0.601	0.614	5.5
2-Chloroethyl Vinyl ether	0.221	0.257	0.286	0.298	0.301	0.293	0.276	11.3
2-Hexanone	0.363	0.429	0.488	0.492	0.484	0.439	0.449	11.1
Dibromochloromethane	0.313	0.352	0.404	0.412	0.421	0.405	0.385	11.1
1,2-Dibromoethane	0.294	0.351	0.380	0.373	0.380	0.364	0.357	9.1
Tetrachloroethene	0.346	0.373	0.371	0.347	0.333	0.347	0.353	4.5
Chlorobenzene	0.951	1.054	1.123	1.084	1.086	1.112	1.068	5.8
1,1,1,2-Tetrachloroethane	0.368	0.344	0.372	0.373	0.379	0.390	0.371	4.2
Hexachloroethane	0.493	0.493	0.556	0.597	0.623	0.661	0.571	12.1
Ethyl Benzene	1.608	1.819	2.002	2.007	1.993	2.053	1.914	8.9
m/p-Xylenes	0.594	0.669	0.732	0.728	0.723	0.729	0.696	7.9
o-Xylene	0.562	0.676	0.725	0.719	0.716	0.714	0.686	9.2
Styrene	0.897	1.043	1.202	1.216	1.230	1.202	1.132	11.8
Bromoform	0.220	0.252	0.272	0.296	0.307	0.315	0.277	13.1
Isopropylbenzene	3.581	3.850	4.224	4.181	4.043	4.151	4.005	6.2
1,1,2,2-Tetrachloroethane	1.457	1.428	1.461	1.384	1.354	1.358	1.407	3.4
1,2,3-Trichloropropane	1.221	1.257	1.251	1.225	1.192	1.171	1.220	2.7
Bromobenzene	0.877	0.927	0.953	0.938	0.925	0.932	0.925	2.8
n-propylbenzene	3.734	4.346	5.012	4.896	4.819	4.872	4.613	10.6

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2-Chlorotoluene	2.894	2.873	3.130	2.966	2.915	2.918	2.949	3.2	
1,3,5-Trimethylbenzene	2.931	3.119	3.571	3.511	3.367	3.371	3.312	7.3	
4-Chlorotoluene	2.961	3.156	3.470	3.449	3.350	3.343	3.288	5.9	
tert-Butylbenzene	2.894	3.124	3.437	3.427	3.387	3.405	3.279	6.8	
1,2,4-Trimethylbenzene	2.906	3.129	3.529	3.523	3.438	3.420	3.324	7.6	
sec-Butylbenzene	3.195	3.828	4.316	4.300	4.232	4.292	4.027	11.1	
p-Isopropyltoluene	2.734	3.157	3.515	3.524	3.506	3.484	3.320	9.6	
1,3-Dichlorobenzene	1.658	1.605	1.726	1.699	1.714	1.706	1.684	2.7	
1,4-Dichlorobenzene	1.671	1.724	1.768	1.703	1.674	1.706	1.708	2.1	
n-Butylbenzene	2.117	2.486	2.974	3.160	3.256	3.283	2.879	16.5	
1,2-Dichlorobenzene	1.644	1.645	1.750	1.678	1.665	1.667	1.675	2.3	
1,2-Dibromo-3-Chloropropane	0.196	0.260	0.312	0.316	0.333	0.349	0.294	19.4	
1,2,4-Trichlorobenzene	0.727	0.844	0.948	0.947	1.045	1.083	0.932	14.1	
Hexachlorobutadiene	0.379	0.389	0.401	0.404	0.415	0.422	0.402	4	
Naphthalene	2.544	3.070	3.630	3.722	3.867	3.982	3.469	15.9	
1,2,3-Trichlorobenzene	0.782	0.916	0.999	1.000	1.063	1.097	0.976	11.6	
1,2-Dichloroethane-d4		0.962	0.900	0.868	0.904	0.937	0.914	3.9	
Dibromofluoromethane		0.372	0.342	0.345	0.353	0.362	0.355	3.5	
Toluene-d8		1.257	1.233	1.214	1.230	1.257	1.238	1.5	
4-Bromofluorobenzene		0.413	0.448	0.453	0.481	0.460	0.451	5.5	

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