

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02
 Lab Code: CHEM Case No.: P5369 SAS No.: P5369 SDG No.: P5369
 Instrument ID: MSVOA_N Calibration Date(s): 12/27/2024 12/27/2024
 Heated Purge: (Y/N) N Calibration Time(s): 10:26 12:48
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN085321.D		RRF050 = VN085322.D		RRF020 = VN085323.D			
		RRF010 = VN085324.D		RRF005 = VN085325.D		RRF001 = VN085326.D			
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
Dichlorodifluoromethane	0.677	0.699	0.658	0.699	0.674	0.649	0.676	3	
Chloromethane	0.674	0.686	0.737	0.739	0.744	0.980	0.760	14.7	
Vinyl Chloride	0.766	0.758	0.827	0.781	0.831	0.859	0.804	5.1	
Ethyl Acetate	0.436	0.416	0.475	0.467	0.443	0.486	0.454	5.9	
Bromomethane	0.481	0.481	0.535	0.540	0.590		0.526	8.7	
Chloroethane	0.490	0.482	0.515	0.516	0.534	0.522	0.510	3.9	
Trichlorofluoromethane	1.023	1.022	1.089	1.074	1.078	1.055	1.057	2.7	
1,1,2-Trichlorotrifluoroethane	0.584	0.578	0.605	0.614	0.634	0.592	0.601	3.4	
Tert butyl alcohol	0.080	0.086	0.093	0.092	0.096		0.089	7.1	
1,1-Dichloroethene	0.549	0.538	0.584	0.539	0.598	0.526	0.556	5.1	
Acrolein	0.131	0.130	0.140	0.142	0.153		0.139	6.7	
Acrylonitrile	0.273	0.275	0.298	0.286	0.278	0.277	0.281	3.3	
Acetone	0.218	0.223	0.250	0.233	0.234	0.250	0.235	5.6	
Carbon Disulfide	1.551	1.536	1.730	1.607	1.702	2.016	1.690	10.5	
Methyl tert-butyl Ether	1.876	1.869	1.934	1.790	1.786	1.581	1.806	6.9	
Methyl Acetate	0.689	0.696	0.746	0.728	0.719	0.729	0.718	3	
Methylene Chloride	0.606	0.613	0.653	0.624	0.643	0.645	0.631	3	
trans-1,2-Dichloroethene	0.567	0.565	0.618	0.569	0.590	0.573	0.580	3.5	
Vinyl Acetate	1.485	1.428	1.576	1.357	1.346	1.125	1.386	11.1	
1,1-Dichloroethane	1.145	1.119	1.209	1.141	1.170	1.143	1.154	2.7	
Cyclohexane	0.984	0.979	1.056	1.055	1.196		1.054	8.3	
2-Butanone	0.357	0.367	0.390	0.362	0.368	0.339	0.364	4.5	
Carbon Tetrachloride	0.516	0.502	0.534	0.491	0.492	0.452	0.498	5.5	
2,2-Dichloropropane	1.021	1.029	1.089	0.995	1.057	0.878	1.011	7.2	
cis-1,2-Dichloroethene	0.701	0.691	0.731	0.654	0.662	0.649	0.681	4.7	
Bromochloromethane	0.560	0.532	0.540	0.535	0.594	0.457	0.536	8.4	
Chloroform	1.155	1.133	1.244	1.161	1.160	1.233	1.181	3.9	
1,1,1-Trichloroethane	1.043	1.022	1.099	1.047	1.062	1.055	1.055	2.4	
Methylcyclohexane	0.540	0.504	0.513	0.450	0.450	0.387	0.474	11.7	
1,1-Dichloropropene	0.480	0.461	0.476	0.442	0.457	0.424	0.457	4.6	

* Compounds with required minimum RRF and maximum %RSD values.
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COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
Benzene	1.412	1.377	1.481	1.356	1.387	1.273	1.381	4.9	
1,2-Dichloroethane	0.489	0.473	0.546	0.494	0.493	0.475	0.495	5.3	
Trichloroethene	0.328	0.311	0.345	0.310	0.324	0.344	0.327	4.7	
1,2-Dichloropropane	0.353	0.339	0.377	0.351	0.348	0.336	0.351	4.1	
Dibromomethane	0.247	0.240	0.256	0.248	0.250	0.221	0.244	5	
Bromodichloromethane	0.526	0.505	0.529	0.510	0.511	0.459	0.507	5	
4-Methyl-2-Pentanone	0.442	0.434	0.462	0.427	0.417	0.338	0.420	10.2	
Toluene	0.881	0.846	0.892	0.810	0.829	0.674	0.822	9.6	
t-1,3-Dichloropropene	0.555	0.529	0.526	0.483	0.498	0.398	0.498	11.1	
cis-1,3-Dichloropropene	0.582	0.555	0.585	0.526	0.528	0.457	0.539	8.8	
1,1,2-Trichloroethane	0.314	0.306	0.320	0.298	0.328	0.297	0.310	4	
1,3-Dichloropropane	0.567	0.555	0.590	0.537	0.553	0.467	0.545	7.7	
2-Chloroethyl Vinyl ether	0.249	0.242	0.226	0.232	0.218	0.145	0.219	17.2	
2-Hexanone	0.313	0.308	0.327	0.294	0.281	0.226	0.291	12.2	
Dibromochloromethane	0.385	0.371	0.378	0.346	0.349	0.269	0.350	12.1	
1,2-Dibromoethane	0.318	0.313	0.335	0.309	0.305	0.263	0.307	7.8	
Tetrachloroethene	0.321	0.312	0.344	0.331	0.323	0.270	0.317	8.1	
Chlorobenzene	1.080	1.049	1.131	1.031	1.067	1.124	1.080	3.7	
1,1,1,2-Tetrachloroethane	0.374	0.363	0.391	0.351	0.348	0.349	0.363	4.7	
Hexachloroethane	0.618	0.596	0.606	0.551	0.560	0.509	0.573	7.1	
Ethyl Benzene	1.970	1.877	1.944	1.715	1.729	1.546	1.797	9.1	
m/p-Xylenes	0.746	0.709	0.740	0.634	0.644	0.473	0.658	15.5	
o-Xylene	0.708	0.689	0.703	0.611	0.602	0.504	0.636	12.5	
Styrene	1.209	1.147	1.172	0.964	0.964	0.730	1.031	17.6	
Bromoform	0.273	0.263	0.275	0.247	0.243	0.207	0.251	10.1	
Isopropylbenzene	3.905	3.731	3.983	3.596	3.684	2.674	3.596	13.2	
1,1,2,2-Tetrachloroethane	1.085	1.064	1.196	1.149	1.176	1.201	1.145	5.1	
1,2,3-Trichloropropane	0.825	0.829	0.944	0.957	0.938	1.109	0.934	11.1	
Bromobenzene	0.865	0.838	0.919	0.890	0.886	0.946	0.891	4.3	
n-propylbenzene	4.634	4.393	4.661	4.259	3.958	3.243	4.191	12.7	

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2-Chlorotoluene	2.719	2.636	2.903	2.688	2.724	2.156	2.638	9.6	
1,3,5-Trimethylbenzene	3.190	3.066	3.284	2.958	2.880	2.072	2.908	15	
4-Chlorotoluene	2.743	2.642	2.919	2.661	2.665	2.310	2.657	7.5	
tert-Butylbenzene	2.748	2.597	2.774	2.508	2.504	1.985	2.519	11.3	
1,2,4-Trimethylbenzene	3.248	3.120	3.346	2.895	2.720	2.047	2.896	16.4	
sec-Butylbenzene	3.917	3.740	3.851	3.538	3.443	2.492	3.497	15	
p-Isopropyltoluene	3.324	3.081	3.231	2.852	2.616	1.790	2.816	20.1	
1,3-Dichlorobenzene	1.645	1.580	1.732	1.555	1.655	1.523	1.615	4.7	
1,4-Dichlorobenzene	1.633	1.568	1.753	1.602	1.666	1.732	1.659	4.4	
n-Butylbenzene	2.908	2.723	2.818	2.417	2.364	2.134	2.561	11.8	
1,2-Dichlorobenzene	1.529	1.513	1.672	1.592	1.543	1.382	1.538	6.2	
1,2-Dibromo-3-Chloropropane	0.195	0.202	0.224	0.200	0.212	0.189	0.204	6.1	
1,2,4-Trichlorobenzene	0.805	0.761	0.825	0.732	0.752	0.731	0.768	5.1	
Hexachlorobutadiene	0.345	0.340	0.400	0.375	0.412	0.417	0.381	8.9	
Naphthalene	2.564	2.528	2.756	2.441	2.381	2.951	2.603	8.2	
1,2,3-Trichlorobenzene	0.763	0.746	0.811	0.768	0.787	0.728	0.767	3.8	
1,2-Dichloroethane-d4	0.715	0.717	0.684	0.692	0.757		0.713	4	
Dibromofluoromethane	0.315	0.317	0.293	0.304	0.330		0.312	4.5	
Toluene-d8	1.189	1.161	1.070	1.075	1.229		1.145	6.1	
4-Bromofluorobenzene	0.407	0.401	0.362	0.347	0.383		0.380	6.6	

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