

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02
 Lab Code: CHEM Case No.: P4676 SAS No.: P4676 SDG No.: P4676
 Instrument ID: MSVOA_X Calibration Date(s): 10/28/2024 10/28/2024
 Heated Purge: (Y/N) N Calibration Time(s): 10:59 12:54
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX043556.D		RRF005 = VX043557.D		RRF020 = VX043558.D			
		RRF050 = VX043559.D		RRF100 = VX043560.D		RRF150 = VX043561.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.589	0.553	0.552	0.506	0.522	0.485	0.535	7	
Chloromethane	0.795	0.703	0.678	0.651	0.662	0.612	0.684	9.1	
Vinyl Chloride	0.626	0.674	0.638	0.634	0.643	0.591	0.634	4.2	
Ethyl Acetate	0.522	0.416	0.498	0.506	0.503	0.484	0.488	7.6	
Bromomethane		0.267	0.246	0.262	0.260	0.258	0.259	2.9	
Chloroethane	0.263	0.215	0.212	0.225	0.217	0.210	0.223	9	
Trichlorofluoromethane	0.823	0.776	0.710	0.779	0.846	0.716	0.775	7.1	
1,1,2-Trichlorotrifluoroethane	0.522	0.546	0.522	0.525	0.539	0.491	0.524	3.7	
Tert butyl alcohol		0.131	0.131	0.156	0.170	0.155	0.149	11.4	
1,1-Dichloroethene	0.533	0.555	0.521	0.536	0.556	0.513	0.536	3.3	
Acrolein		0.124	0.121	0.109	0.117	0.111	0.116	5.5	
Acrylonitrile	0.302	0.335	0.331	0.348	0.360	0.340	0.336	5.8	
Acetone	0.365	0.320	0.294	0.312	0.314	0.295	0.317	8.2	
Carbon Disulfide	1.067	0.974	1.007	1.134	1.310	1.227	1.120	11.6	
Methyl tert-butyl Ether	1.992	2.025	2.038	2.080	2.086	1.999	2.037	1.9	
Methyl Acetate	0.970	0.926	0.880	0.926	0.945	0.904	0.925	3.4	
Methylene Chloride	0.772	0.699	0.663	0.663	0.665	0.633	0.682	7.2	
trans-1,2-Dichloroethene	0.559	0.557	0.577	0.562	0.594	0.546	0.566	3	
Vinyl Acetate	1.326	1.547	1.607	1.688	1.706	1.618	1.582	8.7	
1,1-Dichloroethane	1.103	1.105	1.103	1.109	1.135	1.048	1.101	2.6	
Cyclohexane		0.860	0.885	0.839	0.857	0.768	0.842	5.3	
2-Butanone	0.427	0.462	0.457	0.483	0.484	0.459	0.462	4.5	
Carbon Tetrachloride	0.462	0.442	0.423	0.444	0.465	0.429	0.444	3.8	
2,2-Dichloropropane	0.928	0.914	0.901	0.889	0.925	0.848	0.901	3.3	
cis-1,2-Dichloroethene	0.708	0.719	0.716	0.740	0.747	0.707	0.723	2.3	
Bromochloromethane	0.512	0.529	0.531	0.507	0.545	0.516	0.524	2.7	
Chloroform	1.171	1.170	1.165	1.163	1.166	1.087	1.154	2.8	
1,1,1-Trichloroethane	0.939	0.949	0.978	0.986	1.020	0.939	0.969	3.3	
Methylcyclohexane	0.475	0.509	0.515	0.510	0.512	0.473	0.499	3.9	
1,1-Dichloropropene	0.451	0.396	0.408	0.388	0.400	0.369	0.402	6.9	

* Compounds with required minimum RRF and maximum %RSD values.
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COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Benzene	1.335	1.396	1.383	1.355	1.333	1.246	1.341	4	
1,2-Dichloroethane	0.455	0.488	0.500	0.495	0.489	0.466	0.482	3.6	
Trichloroethene	0.321	0.345	0.338	0.338	0.341	0.317	0.333	3.4	
1,2-Dichloropropane	0.327	0.339	0.325	0.338	0.333	0.320	0.330	2.2	
Dibromomethane	0.230	0.264	0.258	0.260	0.262	0.252	0.254	4.9	
Bromodichloromethane	0.378	0.415	0.435	0.476	0.495	0.477	0.446	10	
4-Methyl-2-Pentanone	0.416	0.497	0.507	0.525	0.518	0.491	0.492	8	
Toluene	0.743	0.832	0.866	0.838	0.831	0.769	0.813	5.7	
t-1,3-Dichloropropene	0.421	0.424	0.485	0.509	0.526	0.510	0.479	9.6	
cis-1,3-Dichloropropene	0.393	0.495	0.535	0.543	0.560	0.536	0.510	12	
1,1,2-Trichloroethane	0.318	0.341	0.345	0.355	0.345	0.327	0.339	4.1	
1,3-Dichloropropane	0.495	0.577	0.589	0.590	0.576	0.551	0.563	6.4	
2-Chloroethyl Vinyl ether	0.232	0.257	0.287	0.268	0.279	0.275	0.266	7.3	
2-Hexanone	0.333	0.369	0.380	0.400	0.392	0.368	0.374	6.3	
Dibromochloromethane	0.259	0.289	0.332	0.367	0.387	0.377	0.335	15.4	
1,2-Dibromoethane	0.314	0.351	0.361	0.367	0.369	0.346	0.351	5.8	
Tetrachloroethene	0.337	0.323	0.327	0.309	0.308	0.284	0.314	5.8	
Chlorobenzene	1.098	1.110	1.083	1.075	1.081	1.007	1.076	3.3	
1,1,1,2-Tetrachloroethane	0.301	0.345	0.350	0.372	0.381	0.359	0.351	8.1	
Hexachloroethane	0.408	0.421	0.476	0.519	0.560	0.533	0.486	12.8	
Ethyl Benzene	1.757	1.763	1.799	1.777	1.794	1.634	1.754	3.5	
m/p-Xylenes	0.625	0.680	0.708	0.691	0.691	0.629	0.671	5.2	
o-Xylene	0.616	0.698	0.698	0.689	0.698	0.645	0.674	5.2	
Styrene	1.007	1.055	1.174	1.183	1.189	1.114	1.120	6.8	
Bromoform	0.203	0.206	0.230	0.275	0.304	0.297	0.253	17.9	
Isopropylbenzene	3.522	3.684	3.705	3.560	3.549	3.230	3.542	4.8	
1,1,2,2-Tetrachloroethane	1.210	1.355	1.316	1.292	1.276	1.193	1.274	4.9	
1,2,3-Trichloropropane	0.928	1.210	1.166	1.071	1.043	0.996	1.069	9.8	
Bromobenzene	0.922	0.945	0.926	0.925	0.922	0.847	0.915	3.7	
n-propylbenzene	3.678	3.819	4.066	3.986	3.987	3.635	3.862	4.6	

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2-Chlorotoluene	2.723	2.677	2.652	2.517	2.499	2.296	2.561	6.2	
1,3,5-Trimethylbenzene	2.761	3.105	3.117	3.038	2.984	2.714	2.953	5.9	
4-Chlorotoluene	2.951	2.921	2.942	2.892	2.887	2.652	2.874	3.9	
tert-Butylbenzene	2.885	3.100	3.149	3.041	3.068	2.777	3.003	4.7	
1,2,4-Trimethylbenzene	2.780	3.111	3.187	3.099	3.051	2.829	3.010	5.5	
sec-Butylbenzene	3.295	3.559	3.718	3.642	3.604	3.304	3.520	5.1	
p-Isopropyltoluene	2.741	2.984	3.123	3.121	3.138	2.847	2.992	5.6	
1,3-Dichlorobenzene	1.645	1.695	1.647	1.646	1.654	1.548	1.639	3	
1,4-Dichlorobenzene	1.917	1.720	1.694	1.653	1.657	1.551	1.699	7.1	
n-Butylbenzene	2.117	2.230	2.516	2.614	2.687	2.467	2.438	9.1	
1,2-Dichlorobenzene	1.638	1.735	1.698	1.726	1.675	1.586	1.676	3.4	
1,2-Dibromo-3-Chloropropane	0.229	0.220	0.256	0.281	0.291	0.281	0.260	11.5	
1,2,4-Trichlorobenzene	0.865	1.008	0.999	1.080	1.099	1.052	1.017	8.3	
Hexachlorobutadiene	0.392	0.367	0.378	0.373	0.391	0.351	0.375	4.1	
Naphthalene	3.249	3.743	4.006	4.126	4.229	4.007	3.893	9.1	
1,2,3-Trichlorobenzene	0.976	1.057	1.077	1.101	1.146	1.080	1.073	5.3	
1,2-Dichloroethane-d4		0.902	0.794	0.785	0.771	0.735	0.797	7.9	
Dibromofluoromethane		0.358	0.337	0.336	0.342	0.323	0.339	3.7	
Toluene-d8		1.255	1.206	1.175	1.159	1.072	1.174	5.8	
4-Bromofluorobenzene		0.446	0.431	0.444	0.439	0.415	0.435	2.9	

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