

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: EAEN05

Lab Code: CHEM Case No.: P4873 SAS No.: P4873 SDG No.: P4873

Instrument ID: MSVOA_X Calibration Date(s): 11/21/2024 11/21/2024

Heated Purge: (Y/N) N Calibration Time(s): 09:47 12:03

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

LAB FILE ID:		RRF001 = VX043925.D		RRF005 = VX043926.D		RRF020 = VX043927.D			
		RRF050 = VX043928.D		RRF100 = VX043929.D		RRF150 = VX043930.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.634	0.633	0.641	0.684	0.601	0.608	0.633	4.6	
Chloromethane	0.578	0.662	0.720	0.697	0.665	0.677	0.667	7.3	
Vinyl Chloride	0.675	0.708	0.730	0.762	0.695	0.684	0.709	4.6	
Bromomethane		0.425	0.438	0.445	0.429	0.442	0.436	2	
Chloroethane	0.579	0.429	0.404	0.459	0.368	0.354	0.432	18.9	
Trichlorofluoromethane	1.038	1.267	1.335	1.357	1.281	1.328	1.268	9.3	
1,1,2-Trichlorotrifluoroethane	0.592	0.585	0.605	0.658	0.589	0.599	0.605	4.5	
1,1-Dichloroethene	0.596	0.530	0.585	0.600	0.572	0.576	0.576	4.4	
Acetone	0.401	0.396	0.401	0.425	0.370	0.370	0.394	5.4	
Carbon Disulfide	1.082	0.956	1.078	1.287	1.330	1.398	1.188	14.6	
Methyl tert-butyl Ether	1.732	1.991	2.212	2.264	2.160	2.192	2.092	9.5	
Methyl Acetate	0.931	0.871	0.911	0.987	0.894	0.910	0.917	4.3	
Methylene Chloride	0.704	0.656	0.684	0.667	0.643	0.655	0.668	3.3	
trans-1,2-Dichloroethene	0.545	0.563	0.609	0.633	0.600	0.619	0.595	5.7	
1,1-Dichloroethane	0.980	1.118	1.221	1.256	1.185	1.208	1.161	8.6	
Cyclohexane		0.911	0.976	1.041	0.926	0.925	0.956	5.6	
2-Butanone	0.448	0.486	0.538	0.567	0.500	0.510	0.508	8.1	
Carbon Tetrachloride	0.439	0.466	0.491	0.558	0.520	0.528	0.500	8.7	
cis-1,2-Dichloroethene	0.674	0.673	0.761	0.792	0.745	0.767	0.735	6.8	
Bromochloromethane	0.501	0.611	0.482	0.450	0.500	0.523	0.511	10.7	
Chloroform	1.070	1.238	1.309	1.316	1.269	1.293	1.249	7.4	
1,1,1-Trichloroethane	0.873	1.005	1.133	1.184	1.119	1.149	1.077	10.9	
Methylcyclohexane	0.544	0.556	0.564	0.656	0.574	0.576	0.578	6.9	
Benzene	1.211	1.369	1.457	1.494	1.388	1.402	1.387	7	
1,2-Dichloroethane	0.499	0.546	0.585	0.603	0.551	0.558	0.557	6.4	
Trichloroethene	0.547	0.372	0.368	0.373	0.345	0.352	0.393	19.5	
1,2-Dichloropropane	0.288	0.322	0.361	0.371	0.346	0.350	0.340	8.8	
Bromodichloromethane	0.349	0.425	0.501	0.544	0.528	0.545	0.482	16.4	
4-Methyl-2-Pentanone	0.437	0.527	0.562	0.606	0.539	0.548	0.537	10.4	
Toluene	0.636	0.839	0.883	0.921	0.850	0.852	0.830	12	

* 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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COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
t-1,3-Dichloropropene	0.341	0.413	0.507	0.569	0.549	0.570	0.491	19.2
cis-1,3-Dichloropropene	0.409	0.462	0.569	0.611	0.580	0.601	0.539	15.4
1,1,2-Trichloroethane	0.287	0.340	0.375	0.370	0.340	0.345	0.343	9.1
2-Hexanone	0.297	0.393	0.431	0.471	0.410	0.419	0.403	14.5
Dibromochloromethane	0.249	0.292	0.344	0.396	0.380	0.401	0.344	18
1,2-Dibromoethane	0.258	0.339	0.373	0.385	0.358	0.367	0.346	13.3
Tetrachloroethene	0.304	0.342	0.336	0.349	0.315	0.332	0.330	5.1
Chlorobenzene	1.050	1.109	1.107	1.145	1.069	1.108	1.098	3.1
Ethyl Benzene	1.579	1.831	1.910	2.024	1.884	1.938	1.861	8.2
m/p-Xylenes	0.610	0.663	0.704	0.762	0.700	0.725	0.694	7.6
o-Xylene	0.543	0.665	0.691	0.757	0.693	0.716	0.678	10.7
Styrene	0.859	1.025	1.174	1.263	1.186	1.217	1.121	13.5
Bromoform	0.145	0.200	0.222	0.284	0.286	0.306	0.240	25.9
Isopropylbenzene	3.435	3.927	3.996	4.097	3.679	3.927	3.843	6.3
1,1,2,2-Tetrachloroethane	1.198	1.356	1.375	1.393	1.260	1.314	1.316	5.7
1,3-Dichlorobenzene	1.580	1.656	1.701	1.764	1.623	1.696	1.670	3.9
1,4-Dichlorobenzene	1.730	1.638	1.706	1.782	1.650	1.710	1.702	3.1
1,2-Dichlorobenzene	1.506	1.733	1.723	1.768	1.642	1.740	1.685	5.8
1,2-Dibromo-3-Chloropropane	0.213	0.254	0.252	0.284	0.275	0.304	0.264	12
1,2,4-Trichlorobenzene	0.849	0.905	0.987	1.084	1.012	1.125	0.994	10.5
1,2,3-Trichlorobenzene	0.753	0.960	1.055	1.118	1.018	1.130	1.006	13.8
1,2-Dichloroethane-d4		0.926	0.876	0.751	0.855	0.880	0.858	7.6
Dibromofluoromethane		0.371	0.353	0.327	0.359	0.376	0.357	5.4
Toluene-d8		1.327	1.237	1.104	1.232	1.257	1.232	6.6
4-Bromofluorobenzene		0.401	0.414	0.387	0.438	0.455	0.419	6.6

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