CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: loui01

Lab Code: CHEM Case No.: O1232 SAS No.: O1232 SDG No.: O1232

Instrument ID: MSVOA_Y Calibration Date(s): 01/16/2023 01/16/2023

Heated Purge: (Y/N) Y Calibration Time(s): 12:17 14:34

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY012194.D RRF010 = VY012195.D RRF020 = VY012196.D
RRF050 = VY012197.D RRF100 = VY012198.D RRF150 = VY012199.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.456	0.520	0.486	0.372	0.410	0.378	0.437	13.8
Chloromethane	0.452	0.440	0.400	0.368	0.389	0.372	0.403	8.7
Vinyl Chloride	0.503	0.508	0.479	0.435	0.464	0.436	0.471	6.8
Bromomethane	0.428	0.398	0.355	0.334	0.352	0.317	0.364	11.4
Chloroethane	0.324	0.324	0.310	0.287	0.310	0.288	0.307	5.3
Trichlorofluoromethane	0.951	0.994	0.945	0.842	0.929	0.853	0.919	6.5
1,1,2-Trichlorotrifluoroethane	0.454	0.481	0.455	0.407	0.457	0.430	0.447	5.7
1,1-Dichloroethene	0.470	0.477	0.459	0.438	0.469	0.443	0.459	3.4
Acetone	0.111	0.149	0.123	0.154	0.149	0.150	0.139	12.9
Carbon Disulfide	1.466	1.490	1.413	1.343	1.443	1.367	1.420	4
Methyl tert-butyl Ether	1.159	1.395	1.250	1.280	1.325	1.273	1.280	6.1
Methyl Acetate	0.308	0.340	0.287	0.301	0.308	0.326	0.312	6
Methylene Chloride	1.174	1.020	0.736	0.570	0.559	0.513	0.762	36.1
trans-1,2-Dichloroethene	0.519	0.543	0.512	0.495	0.519	0.487	0.512	3.9
1,1-Dichloroethane	0.804	0.812	0.772	0.760	0.805	0.759	0.785	3.1
Cyclohexane	0.845	0.795	0.707	0.633	0.713	0.681	0.729	10.6
2-Butanone	0.125	0.175	0.143	0.157	0.156	0.166	0.154	11.5
Carbon Tetrachloride	0.600	0.615	0.594	0.552	0.583	0.543	0.581	4.9
cis-1,2-Dichloroethene	0.571	0.583	0.555	0.548	0.582	0.538	0.563	3.3
Bromochloromethane	0.214	0.177	0.160	0.159	0.160	0.158	0.171	12.8
Chloroform	0.940	0.997	0.912	0.900	0.952	0.860	0.927	5.1
1,1,1-Trichloroethane	0.932	0.969	0.901	0.885	0.950	0.868	0.918	4.3
Methylcyclohexane	0.549	0.566	0.556	0.514	0.564	0.550	0.550	3.4
Benzene	1.354	1.375	1.297	1.237	1.289	1.239	1.299	4.4
1,2-Dichloroethane	0.404	0.453	0.413	0.408	0.414	0.389	0.413	5.2
Trichloroethene	0.404	0.405	0.395	0.372	0.387	0.366	0.388	4.2
1,2-Dichloropropane	0.267	0.288	0.268	0.261	0.277	0.266	0.271	3.6
Bromodichloromethane	0.437	0.488	0.460	0.446	0.468	0.440	0.457	4.2
4-Methyl-2-Pentanone	0.165	0.218	0.193	0.199	0.195	0.211	0.197	9.3
Toluene	0.875	0.896	0.872	0.840	0.877	0.828	0.865	3
t-1,3-Dichloropropene	0.454	0.501	0.478	0.475	0.488	0.470	0.478	3.3
cis-1,3-Dichloropropene	0.492	0.547	0.514	0.508	0.525	0.500	0.514	3.8
1,1,2-Trichloroethane	0.252	0.286	0.255	0.254	0.253	0.246	0.258	5.5

* 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	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
2-Hexanone	0.115	0.166	0.145	0.158	0.153	0.163	0.150	12.5
Dibromochloromethane	0.321	0.369	0.345	0.343	0.344	0.328	0.342	4.8
1,2-Dibromoethane	0.233	0.273	0.247	0.247	0.250	0.243	0.249	5.4
Tetrachloroethene	0.461	0.494	0.468	0.451	0.447	0.417	0.456	5.6
Chlorobenzene	1.097	1.064	1.013	0.990	1.013	0.961	1.023	4.8
Ethyl Benzene	1.877	1.892	1.821	1.791	1.838	1.752	1.828	2.9
m/p-Xylenes	0.732	0.752	0.730	0.711	0.726	0.687	0.723	3.1
o-Xylene	0.706	0.715	0.695	0.680	0.692	0.654	0.690	3.1
Styrene	1.140	1.203	1.157	1.149	1.167	1.106	1.154	2.8
Bromoform	0.227	0.272	0.250	0.249	0.242	0.240	0.247	6
Isopropylbenzene	3.672	3.672	3.604	3.501	3.715	3.469	3.605	2.8
1,1,2,2-Tetrachloroethane	0.544	0.622	0.546	0.563	0.561	0.572	0.568	5
1,3-Dichlorobenzene	1.837	1.799	1.736	1.665	1.725	1.591	1.726	5.2
1,4-Dichlorobenzene	1.888	1.818	1.695	1.642	1.705	1.577	1.721	6.6
1,2-Dichlorobenzene	1.660	1.639	1.521	1.485	1.511	1.422	1.540	6
1,2-Dibromo-3-Chloropropane	0.103	0.133	0.116	0.116	0.115	0.121	0.117	8.3
1,2,4-Trichlorobenzene	1.049	0.995	0.986	0.932	0.977	0.980	0.987	3.8
1,2,3-Trichlorobenzene	0.870	0.862	0.864	0.798	0.837	0.862	0.849	3.3
1,2-Dichloroethane-d4	0.533	0.551	0.498	0.409	0.409	0.388	0.465	15.3
Dibromofluoromethane	0.292	0.291	0.289	0.241	0.242	0.233	0.265	10.8
Toluene-d8	1.242	1.188	1.195	0.890	0.892	0.859	1.044	17.3
4-Bromofluorobenzene	0.425	0.419	0.403	0.333	0.336	0.323	0.373	12.7

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RRF of 1,4-Dioxane = Value should be divide by 1000.