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.: O1233 SAS No.: O1233 SDG No.: O1233

Instrument ID: MSVOA_D Calibration Date(s): 01/18/2023 01/18/2023

Heated Purge: (Y/N) Y Calibration Time(s): 10:25 13:10

GC Column: RTX-VMS ID: 0.18 (mm)

LAB FILE ID: RRF005 = VD075124.D RRF010 = VD075125.D RRF020 = VD075126.D
RRF050 = VD075127.D RRF100 = VD075128.D RRF150 = VD075129.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.476	0.507	0.518	0.365	0.373	0.374	0.435	16.6
Chloromethane	0.725	0.734	0.686	0.608	0.556	0.566	0.646	12.3
Vinyl Chloride	0.741	0.724	0.728	0.656	0.641	0.668	0.693	6.2
Bromomethane	0.534	0.516	0.461	0.451	0.415	0.451	0.471	9.5
Chloroethane	0.496	0.511	0.487	0.473	0.445	0.471	0.481	4.7
Trichlorofluoromethane	0.959	0.897	0.901	0.850	0.832	0.847	0.881	5.4
1,1,2-Trichlorotrifluoroethane	0.580	0.547	0.579	0.517	0.519	0.521	0.544	5.5
1,1-Dichloroethene	0.596	0.603	0.595	0.563	0.537	0.541	0.573	5.2
Acetone	0.109	0.139	0.126	0.160	0.136	0.138	0.135	12.6
Carbon Disulfide	1.982	1.978	1.942	1.832	1.710	1.698	1.857	7
Methyl tert-butyl Ether	1.168	1.255	1.164	1.290	1.128	1.170	1.196	5.2
Methyl Acetate	0.390	0.401	0.353	0.387	0.325	0.338	0.366	8.5
Methylene Chloride	0.972	1.161	0.911	0.794	0.629	0.625	0.849	24.6
trans-1,2-Dichloroethene	0.695	0.676	0.631	0.657	0.583	0.583	0.637	7.4
1,1-Dichloroethane	1.130	1.181	1.083	1.112	1.002	1.012	1.087	6.4
Cyclohexane	1.295	1.059	1.049	0.935	0.895	0.907	1.023	14.7
2-Butanone	0.159	0.176	0.150	0.182	0.151	0.158	0.163	8.2
Carbon Tetrachloride	0.398	0.375	0.404	0.406	0.434	0.435	0.409	5.6
cis-1,2-Dichloroethene	0.720	0.728	0.707	0.726	0.648	0.640	0.695	5.8
Bromochloromethane	0.312	0.338	0.320	0.297	0.258	0.255	0.297	11.3
Chloroform	1.169	1.159	1.067	1.122	0.986	0.999	1.084	7.3
1,1,1-Trichloroethane	0.981	0.987	0.926	0.937	0.878	0.894	0.934	4.7
Methylcyclohexane	0.646	0.590	0.599	0.570	0.597	0.588	0.598	4.2
Benzene	1.458	1.425	1.368	1.438	1.328	1.290	1.384	4.8
1,2-Dichloroethane	0.359	0.376	0.350	0.384	0.355	0.358	0.364	3.6
Trichloroethene	0.410	0.401	0.373	0.400	0.376	0.374	0.389	4.2
1,2-Dichloropropane	0.365	0.355	0.323	0.355	0.327	0.321	0.341	5.7
Bromodichloromethane	0.449	0.455	0.417	0.473	0.443	0.440	0.446	4.2
4-Methyl-2-Pentanone	0.171	0.192	0.172	0.192	0.180	0.190	0.183	5.4
Toluene	0.912	0.906	0.864	0.916	0.829	0.822	0.875	4.9
t-1,3-Dichloropropene	0.402	0.426	0.399	0.447	0.426	0.433	0.422	4.4
cis-1,3-Dichloropropene	0.486	0.519	0.501	0.556	0.511	0.521	0.516	4.6
1,1,2-Trichloroethane	0.243	0.245	0.229	0.255	0.225	0.232	0.238	4.7

* 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	0.140	0.123	0.144	0.131	0.140	0.132	8.7
Dibromochloromethane	0.279	0.299	0.262	0.310	0.283	0.288	0.287	5.7
1,2-Dibromoethane	0.234	0.228	0.221	0.242	0.217	0.222	0.227	4
Tetrachloroethene	0.380	0.363	0.358	0.350	0.346	0.344	0.357	3.8
Chlorobenzene	1.129	1.025	1.005	1.054	0.972	0.962	1.025	6
Ethyl Benzene	1.914	1.826	1.855	1.865	1.805	1.800	1.844	2.3
m/p-Xylenes	0.755	0.701	0.722	0.718	0.689	0.690	0.712	3.5
o-Xylene	0.687	0.668	0.661	0.696	0.647	0.651	0.668	2.9
Styrene	1.119	1.139	1.102	1.153	1.073	1.079	1.111	2.9
Bromoform	0.166	0.176	0.166	0.188	0.184	0.187	0.178	5.7
Isopropylbenzene	4.215	3.842	3.974	3.847	3.954	3.864	3.949	3.6
1,1,2,2-Tetrachloroethane	0.601	0.674	0.626	0.645	0.614	0.615	0.629	4.2
1,3-Dichlorobenzene	1.817	1.801	1.783	1.756	1.684	1.651	1.749	3.8
1,4-Dichlorobenzene	1.818	1.764	1.700	1.721	1.676	1.644	1.720	3.6
1,2-Dichlorobenzene	1.532	1.491	1.515	1.532	1.454	1.453	1.496	2.4
1,2-Dibromo-3-Chloropropane	0.084	0.095	0.095	0.102	0.097	0.104	0.096	7.4
1,2,4-Trichlorobenzene	0.983	0.990	0.933	0.997	0.987	1.005	0.982	2.6
1,2,3-Trichlorobenzene	0.813	0.833	0.820	0.854	0.847	0.863	0.838	2.3
1,2-Dichloroethane-d4	0.524	0.543	0.501	0.537	0.472	0.485	0.510	5.7
Dibromofluoromethane	0.288	0.312	0.301	0.322	0.297	0.293	0.302	4.2
Toluene-d8	1.228	1.239	1.152	1.232	1.153	1.133	1.190	4.1
4-Bromofluorobenzene	0.409	0.376	0.363	0.397	0.357	0.363	0.378	5.6

* Compounds with required minimum RRF and maximum %RSD values.
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