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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3631 SAS No.: O3631 SDG No.: O3631

Instrument ID: MSVOA_Y Calibration Date(s): 07/13/2023 07/13/2023

Heated Purge: (Y/N) Y Calibration Time(s): 09:05 13:31

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

LAB FILE ID: RRF005 = VY014620.D RRF010 = VY014621.D RRF050 = VY014623.D
RRF100 = VY014624.D RRF150 = VY014625.D RRF020 = VY014627.D

COMPOUND	RRF005	RRF010	RRF050	RRF100	RRF150	RRF020	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.466	0.449	0.389	0.402	0.370	0.367	0.407	10.2
Chloromethane	0.508	0.467	0.448	0.453	0.418	0.453	0.458	6.4
Vinyl Chloride	0.548	0.519	0.516	0.517	0.474	0.497	0.512	4.8
Bromomethane	0.361	0.339	0.335	0.308		0.348	0.338	5.8
Chloroethane	0.338	0.319	0.325	0.326	0.289	0.321	0.320	5.2
Trichlorofluoromethane	0.877	0.849	0.877	0.898	0.819	0.837	0.860	3.4
1,1,2-Trichlorotrifluoroethane	0.540	0.505	0.542	0.552	0.510	0.511	0.527	3.8
1,1-Dichloroethene	0.494	0.480	0.505	0.514	0.472	0.490	0.492	3.2
Acetone	0.177	0.144	0.194	0.187	0.164	0.217	0.181	14
Carbon Disulfide	1.547	1.429	1.397	1.419	1.307	1.359	1.410	5.7
Methyl tert-butyl Ether	1.561	1.466	1.635	1.675	1.557	1.702	1.599	5.5
Methyl Acetate	0.652	0.613	0.704	0.739	0.690	0.760	0.693	7.9
Methylene Chloride	0.878	0.620	0.604	0.588	0.540	0.709	0.656	18.5
trans-1,2-Dichloroethene	0.580	0.546	0.566	0.573	0.527	0.560	0.559	3.5
1,1-Dichloroethane	1.018	0.956	1.044	1.054	0.980	1.050	1.017	4
Cyclohexane	1.137	0.959	0.915	0.915	0.847	0.903	0.946	10.6
2-Butanone	0.261	0.223	0.270	0.275	0.248	0.308	0.264	10.7
Carbon Tetrachloride	0.506	0.473	0.524	0.530	0.492	0.494	0.503	4.2
cis-1,2-Dichloroethene	0.668	0.614	0.668	0.670	0.618	0.665	0.650	4.1
Bromochloromethane	0.462	0.478	0.419	0.430	0.415	0.424	0.438	5.9
Chloroform	1.073	0.974	1.069	1.079	1.003	1.095	1.049	4.6
1,1,1-Trichloroethane	0.968	0.880	0.960	0.988	0.917	0.949	0.944	4.2
Methylcyclohexane	0.657	0.601	0.640	0.637	0.590	0.597	0.620	4.5
Benzene	1.379	1.277	1.404	1.397	1.282	1.383	1.354	4.3
1,2-Dichloroethane	0.413	0.395	0.446	0.450	0.423	0.445	0.429	5.1
Trichloroethene	0.386	0.358	0.391	0.389	0.361	0.387	0.379	4
1,2-Dichloropropane	0.354	0.331	0.367	0.366	0.337	0.365	0.353	4.5
Bromodichloromethane	0.498	0.469	0.526	0.528	0.490	0.521	0.505	4.7
4-Methyl-2-Pentanone	0.315	0.288	0.337	0.348	0.316	0.364	0.328	8.3
Toluene	0.877	0.823	0.898	0.895	0.813	0.891	0.866	4.4
t-1,3-Dichloropropene	0.547	0.509	0.574	0.577	0.537	0.573	0.553	4.9
cis-1,3-Dichloropropene	0.603	0.563	0.626	0.620	0.576	0.620	0.601	4.4
1,1,2-Trichloroethane	0.297	0.273	0.310	0.312	0.289	0.311	0.299	5.2

* 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	RRF050	RRF100	RRF150	RRF020	$\overline{RRF}$	% RSD
2-Hexanone	0.224	0.205	0.248	0.254	0.230	0.272	0.239	10
Dibromochloromethane	0.361	0.335	0.383	0.382	0.355	0.382	0.366	5.3
1,2-Dibromoethane	0.293	0.273	0.310	0.310	0.287	0.315	0.298	5.5
Tetrachloroethene	0.428	0.395	0.412	0.397	0.363	0.419	0.402	5.8
Chlorobenzene	1.083	1.001	1.097	1.101	1.015	1.096	1.065	4.2
Ethyl Benzene	1.980	1.827	1.998	1.974	1.802	1.962	1.924	4.5
m/p-Xylenes	0.750	0.699	0.758	0.750	0.689	0.759	0.734	4.3
o-Xylene	0.740	0.672	0.740	0.735	0.674	0.730	0.715	4.6
Styrene	1.225	1.122	1.262	1.238	1.129	1.256	1.206	5.3
Bromoform	0.260	0.243	0.286	0.285	0.265	0.294	0.272	7.1
Isopropylbenzene	4.011	3.751	4.005	4.073	3.771	3.878	3.915	3.4
1,1,2,2-Tetrachloroethane	0.876	0.809	0.905	0.950	0.885	0.932	0.893	5.5
n-propylbenzene	4.775	4.512	4.901	4.936	4.514	4.668	4.718	3.9
1,3,5-Trimethylbenzene	3.319	3.110	3.399	3.386	3.132	3.272	3.270	3.8
tert-Butylbenzene	2.917	2.742	3.015	3.030	2.811	2.888	2.900	3.9
1,2,4-Trimethylbenzene	3.270	3.054	3.331	3.318	3.055	3.224	3.209	3.9
sec-Butylbenzene	4.306	4.068	4.419	4.415	4.056	4.264	4.255	3.8
p-Isopropyltoluene	3.483	3.307	3.635	3.605	3.287	3.526	3.474	4.3
1,3-Dichlorobenzene	1.750	1.633	1.810	1.796	1.655	1.792	1.739	4.4
1,4-Dichlorobenzene	1.767	1.624	1.812	1.804	1.675	1.777	1.743	4.4
n-Butylbenzene	3.388	3.182	3.552	3.547	3.241	3.368	3.380	4.5
1,2-Dichlorobenzene	1.566	1.503	1.665	1.653	1.538	1.637	1.594	4.2
1,2-Dibromo-3-Chloropropane	0.166	0.147	0.173	0.184	0.173	0.182	0.171	7.9
1,2,4-Trichlorobenzene	0.943	0.884	1.084	1.089	1.026	1.044	1.012	8.1
1,2,3-Trichlorobenzene	0.828	0.768	0.956	0.975	0.925	0.942	0.899	9.1
1,2-Dichloroethane-d4	0.586	0.534	0.559	0.568	0.559	0.612	0.570	4.7
Dibromofluoromethane	0.320	0.307	0.322	0.317	0.309	0.335	0.318	3.2
Toluene-d8	1.238	1.149	1.171	1.145	1.103	1.234	1.173	4.5
4-Bromofluorobenzene	0.486	0.440	0.444	0.438	0.423	0.468	0.450	5.1

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All other compounds must meet a minimum RRF of 0.010.
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