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.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: MSVOA_D Calibration Date(s): 07/14/2023 07/14/2023

Heated Purge: (Y/N) Y Calibration Time(s): 12:50 15:57

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

LAB FILE ID: RRF020 = VD076737.D RRF050 = VD076738.D RRF100 = VD076739.D
RRF150 = VD076740.D RRF005 = VD076742.D RRF =

COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.449	0.393	0.359	0.383	0.372		0.391	8.9
Chloromethane	0.718	0.686	0.618	0.587	0.764		0.674	10.7
Vinyl Chloride	0.950	0.906	0.839	0.842	0.958		0.899	6.3
Bromomethane	0.729	0.705	0.690	0.709	0.866		0.740	9.8
Chloroethane	0.705	0.687	0.640	0.629	0.733		0.679	6.4
Trichlorofluoromethane	0.868	0.775	0.756	0.794	0.807		0.800	5.3
1,1,2-Trichlorotrifluoroethane	0.584	0.520	0.491	0.514	0.521		0.526	6.5
1,1-Dichloroethene	0.523	0.494	0.468	0.479	0.508		0.494	4.5
Acetone	0.109	0.123	0.118	0.104	0.141		0.119	12.1
Carbon Disulfide	1.218	1.205	1.127	1.113	1.106		1.154	4.6
Methyl tert-butyl Ether	1.306	1.404	1.328	1.284	1.303		1.325	3.5
Methyl Acetate	0.435	0.465	0.446	0.417	0.471		0.447	5
Methylene Chloride	0.803	0.735	0.659	0.600	2.123		0.984	65.2
trans-1,2-Dichloroethene	0.594	0.601	0.556	0.550	0.571		0.574	3.9
1,1-Dichloroethane	1.046	1.076	1.021	0.968	1.070		1.036	4.2
Cyclohexane	0.789	0.680	0.654	0.675	0.866		0.733	12.4
2-Butanone	0.154	0.170	0.163	0.147	0.162		0.159	5.6
Carbon Tetrachloride	0.423	0.393	0.396	0.407	0.346		0.393	7.3
cis-1,2-Dichloroethene	0.713	0.731	0.719	0.675	0.703		0.708	3
Bromochloromethane	0.294	0.246	0.238	0.216	0.301		0.259	14.3
Chloroform	1.175	1.133	1.115	1.045	1.206		1.135	5.4
1,1,1-Trichloroethane	0.968	0.935	0.909	0.897	0.869		0.916	4.1
Methylcyclohexane	0.509	0.478	0.466	0.492	0.425		0.474	6.7
Benzene	1.349	1.295	1.308	1.256	1.270		1.295	2.8
1,2-Dichloroethane	0.334	0.346	0.344	0.321	0.339		0.337	3
Trichloroethene	0.374	0.358	0.355	0.337	0.341		0.353	4.2
1,2-Dichloropropane	0.344	0.360	0.335	0.315	0.318		0.334	5.6
Bromodichloromethane	0.505	0.518	0.481	0.463	0.490		0.491	4.3
4-Methyl-2-Pentanone	0.185	0.207	0.195	0.181	0.185		0.191	5.6
Toluene	0.856	0.884	0.854	0.841	0.819		0.851	2.8
t-1,3-Dichloropropene	0.433	0.491	0.478	0.453	0.425		0.456	6.2
cis-1,3-Dichloropropene	0.551	0.570	0.545	0.526	0.494		0.537	5.3
1,1,2-Trichloroethane	0.285	0.304	0.292	0.270	0.278		0.286	4.6

* 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	RRF020	RRF050	RRF100	RRF150	RRF005	RRF	$\overline{RRF}$	% RSD
2-Hexanone	0.129	0.148	0.140	0.128	0.134		0.136	6.1
Dibromochloromethane	0.328	0.354	0.341	0.325	0.312		0.332	4.9
1,2-Dibromoethane	0.265	0.287	0.269	0.250	0.254		0.265	5.6
Tetrachloroethene	0.315	0.279	0.277	0.284	0.271		0.285	6
Chlorobenzene	1.067	0.999	1.005	0.991	0.965		1.006	3.7
Ethyl Benzene	1.860	1.760	1.772	1.819	1.620		1.766	5.2
m/p-Xylenes	0.721	0.677	0.696	0.705	0.592		0.678	7.5
o-Xylene	0.668	0.661	0.683	0.678	0.589		0.656	5.9
Styrene	1.182	1.164	1.196	1.190	1.009		1.148	6.9
Bromoform	0.211	0.211	0.214	0.205	0.184		0.205	5.9
Isopropylbenzene	3.774	3.610	3.576	3.657	3.521		3.628	2.6
1,1,2,2-Tetrachloroethane	0.811	0.787	0.765	0.710	0.821		0.779	5.7
n-propylbenzene	4.710	4.375	4.341	4.423	4.139		4.398	4.7
1,3,5-Trimethylbenzene	3.115	2.959	2.954	2.997	2.641		2.933	6
tert-Butylbenzene	2.721	2.623	2.653	2.681	2.237		2.583	7.6
1,2,4-Trimethylbenzene	3.159	3.045	3.028	3.057	2.699		2.997	5.8
sec-Butylbenzene	4.253	3.935	3.926	4.056	3.560		3.946	6.4
p-Isopropyltoluene	3.475	3.289	3.330	3.451	2.749		3.259	9.1
1,3-Dichlorobenzene	1.810	1.738	1.736	1.730	1.597		1.722	4.5
1,4-Dichlorobenzene	1.752	1.677	1.692	1.647	1.669		1.687	2.3
n-Butylbenzene	3.482	3.167	3.145	3.254	2.896		3.189	6.6
1,2-Dichlorobenzene	1.569	1.528	1.488	1.483	1.521		1.518	2.3
1,2-Dibromo-3-Chloropropane	0.115	0.106	0.105	0.096	0.134		0.111	12.9
1,2,4-Trichlorobenzene	0.946	0.924	0.938	0.907	0.918		0.927	1.7
1,2,3-Trichlorobenzene	0.835	0.827	0.836	0.807	0.852		0.831	2
1,2-Dichloroethane-d4	0.534	0.468	0.484	0.449	0.554		0.498	8.9
Dibromofluoromethane	0.345	0.291	0.317	0.285	0.333		0.314	8.2
Toluene-d8	1.271	1.053	1.102	1.042	1.152		1.124	8.3
4-Bromofluorobenzene	0.392	0.351	0.373	0.346	0.357		0.364	5.1

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