284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: MSVOA_X Calibration Date(s): 10/01/2024 10/01/2024

Heated Purge: (Y/N) N Calibration Time(s): 11:36 13:31

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

LAB FILE ID: RRF001 = VX043207.D RRF005 = VX043208.D RRF020 = VX043209.D
RRF050 = VX043210.D RRF100 = VX043211.D RRF150 = VX043212.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.558	0.532	0.539	0.599	0.608	0.654	0.582	8.1
Chloromethane	0.673	0.565	0.559	0.601	0.567	0.629	0.599	7.5
Vinyl Chloride	0.564	0.582	0.580	0.603	0.607	0.664	0.600	5.9
Bromomethane		0.247	0.219	0.239	0.245	0.275	0.245	8.2
Chloroethane	0.277	0.207	0.207	0.225	0.209	0.215	0.223	12.1
Trichlorofluoromethane	0.969	0.869	0.860	0.869	0.864	0.948	0.896	5.4
1,1,2-Trichlorotrifluoroethane	0.531	0.536	0.534	0.559	0.584	0.612	0.559	5.9
1,1-Dichloroethene	0.579	0.529	0.525	0.549	0.548	0.604	0.556	5.5
Acetone	0.414	0.361	0.337	0.317	0.303	0.314	0.341	12
Carbon Disulfide	1.388	1.238	1.288	1.321	1.361	1.512	1.351	7
Methyl tert-butyl Ether	1.862	1.948	1.944	1.993	2.016	2.162	1.987	5
Methyl Acetate	0.890	0.787	0.739	0.891	0.881	0.945	0.855	8.9
Methylene Chloride	0.676	0.629	0.599	0.612	0.604	0.652	0.629	4.8
trans-1,2-Dichloroethene	0.514	0.537	0.545	0.550	0.563	0.608	0.553	5.7
1,1-Dichloroethane	0.962	1.057	1.056	1.073	1.102	1.166	1.069	6.2
Cyclohexane		0.873	0.880	0.860	0.875	0.917	0.881	2.4
2-Butanone	0.459	0.480	0.466	0.471	0.452	0.478	0.468	2.3
Carbon Tetrachloride	0.474	0.491	0.505	0.527	0.531	0.566	0.516	6.3
cis-1,2-Dichloroethene	0.654	0.682	0.674	0.683	0.695	0.750	0.690	4.7
Bromochloromethane	0.504	0.474	0.348	0.404	0.381	0.420	0.422	13.8
Chloroform	1.171	1.174	1.148	1.151	1.161	1.242	1.174	2.9
1,1,1-Trichloroethane	1.020	1.050	1.046	1.083	1.100	1.173	1.079	5
Methylcyclohexane	0.502	0.525	0.552	0.550	0.569	0.590	0.548	5.7
Benzene	1.289	1.310	1.314	1.314	1.308	1.389	1.321	2.6
1,2-Dichloroethane	0.516	0.523	0.539	0.545	0.536	0.569	0.538	3.5
Trichloroethene	0.370	0.322	0.345	0.342	0.348	0.375	0.350	5.6
1,2-Dichloropropane	0.306	0.319	0.322	0.328	0.324	0.346	0.324	4.1
Bromodichloromethane	0.462	0.477	0.499	0.527	0.528	0.570	0.511	7.7
4-Methyl-2-Pentanone	0.514	0.520	0.522	0.543	0.514	0.537	0.525	2.3
Toluene	0.798	0.819	0.829	0.845	0.811	0.865	0.828	2.9

* 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	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.431	0.459	0.496	0.542	0.535	0.581	0.507	11
cis-1,3-Dichloropropene	0.499	0.518	0.529	0.560	0.556	0.603	0.544	6.8
1,1,2-Trichloroethane	0.316	0.329	0.328	0.340	0.320	0.341	0.329	3.1
2-Hexanone	0.373	0.390	0.397	0.413	0.396	0.412	0.397	3.8
Dibromochloromethane	0.343	0.348	0.369	0.407	0.394	0.430	0.382	9
1,2-Dibromoethane	0.354	0.331	0.353	0.364	0.346	0.372	0.353	4
Tetrachloroethene	0.335	0.343	0.345	0.343	0.345	0.371	0.347	3.5
Chlorobenzene	1.110	1.030	1.033	1.058	1.065	1.154	1.075	4.5
Ethyl Benzene	1.795	1.770	1.816	1.887	1.857	2.023	1.858	4.9
m/p-Xylenes	0.698	0.683	0.682	0.704	0.692	0.755	0.702	3.9
o-Xylene	0.704	0.689	0.668	0.693	0.685	0.747	0.698	3.9
Styrene	1.016	1.067	1.111	1.165	1.164	1.262	1.131	7.6
Bromoform	0.236	0.244	0.280	0.305	0.323	0.358	0.291	16.2
Isopropylbenzene	3.742	3.936	3.886	3.910	3.776	4.075	3.887	3.1
1,1,2,2-Tetrachloroethane	1.243	1.295	1.243	1.248	1.238	1.332	1.266	3
1,3-Dichlorobenzene	1.609	1.634	1.642	1.629	1.666	1.819	1.666	4.6
1,4-Dichlorobenzene	1.848	1.672	1.662	1.639	1.665	1.823	1.718	5.4
1,2-Dichlorobenzene	1.774	1.720	1.690	1.650	1.636	1.755	1.704	3.3
1,2-Dibromo-3-Chloropropane	0.290	0.281	0.298	0.312	0.324	0.351	0.309	8.3
1,2,4-Trichlorobenzene	0.865	0.837	0.944	1.001	1.058	1.190	0.983	13.3
1,2,3-Trichlorobenzene	0.957	0.918	0.957	1.016	1.056	1.179	1.014	9.3
1,2-Dichloroethane-d4		0.802	0.779	0.814	0.788	0.900	0.817	5.9
Dibromofluoromethane		0.331	0.329	0.340	0.339	0.384	0.345	6.5
Toluene-d8		1.148	1.165	1.217	1.147	1.298	1.195	5.4
4-Bromofluorobenzene		0.404	0.413	0.453	0.421	0.480	0.434	7.3

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