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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4633 SAS No.: P4633 SDG No.: P4633

Instrument ID: MSVOA_L Calibration Date(s): 11/07/2024 11/07/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:15 14:12

GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID: RRF010 = VL041674.D RRF002 = VL041675.D RRF001 = VL041676.D
RRF0.5 = VL041677.D RRF0.1 = VL041678.D RRF.03 = VL041679.D

COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Chlorodifluoromethane	0.427	0.491	0.493	0.502			0.467	8.5
Dichlorodifluoromethane	1.887	2.128	1.533	1.665			1.807	12.5
Ethanol	0.029	0.046	0.033	0.036			0.035	19.4
Chloromethane	0.649	0.721	0.732	0.714			0.690	6.5
Vinyl Chloride	0.626	0.680	0.660	0.627	0.490	0.643	0.621	9.9
Ethyl Acetate	2.463	2.681	2.674	2.443			2.548	4.7
Bromomethane	0.317	0.347	0.328	0.337			0.329	3.9
Chloroethane	0.223	0.233	0.232	0.227			0.227	2.7
Tetrahydrofuran	0.295	0.309	0.281	0.234			0.284	10.7
Trichlorofluoromethane	1.480	1.673	1.644	1.609			1.574	6.1
1,1,2-Trichlorotrifluoroethane	1.074	1.214	1.195	1.165			1.144	5.8
Dichlorotetrafluoroethane	1.476	1.685	1.677	1.783			1.613	9
Bromoethene	0.431	0.476	0.465	0.486			0.460	5.1
Propene	0.530	0.603	0.610	0.566			0.568	6.8
tert-Butyl alcohol	1.038	1.036	1.294	1.059			1.080	11.5
Heptane	1.311	1.364	1.257	1.093			1.272	8.5
Isopropyl Alcohol	0.552	0.600	0.696	0.561			0.588	11
1,1-Dichloroethene	0.476	0.521	0.491	0.533			0.502	4.8
Acetone	1.098	1.348	1.403	1.201			1.231	11.4
Carbon Disulfide	1.174	1.141	1.056	0.915			1.100	10.7
Methyl tert-Butyl Ether	0.573	0.739	0.669	0.591			0.630	11.5
Methylene Chloride	0.400	0.447	0.501	0.514			0.453	11.9
trans-1,2-Dichloroethene	0.484	0.529	0.515	0.475			0.499	4.5
Vinyl Acetate	0.514	0.606	0.558	0.492			0.543	8.1
1,1-Dichloroethane	1.045	1.287	1.116	1.074			1.114	9.1
Cyclohexane	0.825	0.852	0.744	0.901			0.833	6.9
2-Butanone	0.478	0.524	0.500	0.488			0.498	3.4
Carbon Tetrachloride	0.564	0.597	0.563	0.553	0.425	0.420	0.528	13.8
cis-1,2-Dichloroethene	0.936	0.959	0.972	0.873			0.942	4.3
Chloroform	1.520	1.646	1.671	1.712			1.616	5.3

* 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	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
1,1,1-Trichloroethane	1.488	1.619	1.574	1.468	1.289	1.373	1.474	7.7
2,2,4-Trimethylpentane	1.251	1.391	1.306	1.086			1.255	8.9
Benzene	0.738	0.803	0.751	0.663			0.741	6.8
1,2-Dichloroethane	0.408	0.435	0.433	0.396			0.418	3.9
Trichloroethene	0.303	0.320	0.289	0.264	0.232	0.273	0.285	10.8
1,2-Dichloropropane	0.284	0.308	0.299	0.278			0.293	4
Bromodichloromethane	0.590	0.615	0.566	0.533			0.581	5.5
4-Methyl-2-Pentanone	0.806	0.841	0.753	0.611			0.764	12
Toluene	0.855	0.842	0.761	0.560			0.779	16.7
t-1,3-Dichloropropene	0.282	0.224	0.210	0.164			0.238	24.2
cis-1,3-Dichloropropene	0.386	0.350	0.304	0.256			0.341	18.3
1,1,2-Trichloroethane	0.308	0.325	0.315	0.323			0.317	2.3
2-Hexanone	0.627	0.601	0.496	0.411			0.557	18
Dibromochloromethane	0.515	0.511	0.458	0.396			0.482	11.3
1,2-Dibromoethane	0.415	0.417	0.366	0.357	0.237		0.370	19.3
Tetrachloroethene	0.276	0.285	0.279	0.248	0.192	0.202	0.252	15.8
Chlorobenzene	0.673	0.793	0.780	0.783			0.740	8.5
Ethyl Benzene	1.141	1.232	1.092	0.868			1.096	12.5
m/p-Xylene	0.975	1.112	1.019	0.832			0.982	10.3
o-Xylene	0.947	1.068	0.958	0.771			0.936	11.3
Styrene	0.456	0.416	0.336	0.250			0.386	24.1
Bromoform	0.459	0.427	0.383	0.317			0.412	15.5
Isopropylbenzene	1.397	1.633	1.527	1.293			1.446	9.3
1,1,2,2-Tetrachloroethane	0.660	0.773	0.740	0.693	0.568	0.731	0.689	10
2-Chlorotoluene	1.055	1.182	1.082	0.848			1.045	11.6
1,3,5-Trimethylbenzene	0.967	1.096	0.946	0.794			0.955	11.3
1,2,4-Trimethylbenzene	1.071	1.262	1.174	0.980			1.109	9.9
1,3-Dichlorobenzene	0.659	0.750	0.711	0.643			0.687	6.3
1,4-Dichlorobenzene	0.645	0.711	0.662	0.644			0.663	4.2
1,2-Dichlorobenzene	0.643	0.739	0.722	0.643			0.681	6.8

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COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
1,2,4-Trichlorobenzene	0.425	0.456	0.452	0.364			0.431	9.2
Hexachloro-1,3-Butadiene	0.428	0.583	0.620	0.620			0.538	17.9
1,3-Butadiene	0.627	0.689	0.572	0.585			0.621	7.4
Naphthalene	0.832	0.854	0.738	0.527	0.269		0.685	35.3
4-Ethyltoluene	1.131	1.233	1.068	0.864			1.088	12.7
1-Bromo-4-Fluorobenzene	0.716	0.722	0.745	0.763	0.750	0.741	0.737	2.4
Hexane	0.966	1.025	1.031	0.881			0.979	6.2
Allyl Chloride	0.759	0.778	0.807	0.688			0.761	5.8
Benzyl Chloride	0.108	0.098	0.088	0.083			0.100	15.9
1,4-Dioxane	110.885	122.639	105.152	72.370			105.056	18.4
Methyl Methacrylate	0.288	0.278	0.237	0.196			0.260	16.6

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