284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: NEWY17

Lab Code: CHEM Case No.: P5018 SAS No.: P5018 SDG No.: P5018

Instrument ID: MSVOA_N Calibration Date(s): 10/31/2024 10/31/2024

Heated Purge: (Y/N) N Calibration Time(s): 12:08 18:13

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

LAB FILE ID: RRF005 = VN084613.D RRF020 = VN084614.D RRF050 = VN084615.D
RRF100 = VN084616.D RRF150 = VN084617.D RRFCAL = VN084626.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRFCAL	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	1.762	1.842	1.727	1.647	1.746		1.745	4
Chloromethane	2.294	2.180	1.987	1.942	2.100		2.101	6.8
Vinyl Chloride	1.987	2.059	1.937	1.841	1.929		1.951	4.1
Bromomethane	1.026	1.087	0.943	0.927	0.969		0.990	6.7
Chloroethane	1.361	1.345	1.305	1.162	1.231		1.281	6.5
Trichlorofluoromethane	3.268	3.375	3.091	2.971	3.135		3.168	5
1,1,2-Trichlorotrifluoroethane	1.776	1.938	1.786	1.675	1.777		1.790	5.3
1,1-Dichloroethene	1.685	1.840	1.711	1.699	1.807		1.748	4
Acetone	0.231	0.235	0.223	0.223	0.233		0.229	2.3
Carbon Disulfide	5.140	5.375	5.016	4.956	5.235		5.144	3.3
Methyl tert-Butyl Ether	4.972	5.809	5.618	5.772	6.099		5.654	7.4
Methyl Acetate	3.900	2.690	2.326	2.302	2.408		2.725	24.8
Methylene Chloride	2.119	2.210	1.980	1.930	2.004		2.049	5.6
trans-1,2-Dichloroethene	1.819	1.905	1.810	1.776	1.854		1.833	2.7
1,1-Dichloroethane	3.711	3.802	3.469	3.417	3.534		3.587	4.6
Cyclohexane	0.444	0.511	0.520	0.517	0.539		0.506	7.2
2-Butanone	0.206	0.207	0.207	0.210	0.213		0.208	1.3
Carbon Tetrachloride	0.545	0.536	0.517	0.504	0.517		0.524	3.2
cis-1,2-Dichloroethene	2.121	2.237	2.172	2.141	2.269		2.188	2.9
Chloroform	3.764	3.915	3.598	3.469	3.627		3.675	4.6
1,1,1-Trichloroethane	0.631	0.645	0.604	0.593	0.595		0.614	3.8
Methylcyclohexane	0.429	0.479	0.495	0.504	0.526		0.486	7.5
Benzene	1.549	1.525	1.476	1.460	1.458		1.494	2.8
1,2-Dichloroethane	0.521	0.521	0.488	0.469	0.484		0.497	4.7
Trichloroethene	0.340	0.350	0.331	0.325	0.338		0.337	2.8
1,2-Dichloropropane	0.371	0.372	0.351	0.349	0.355		0.360	3.1
Bromodichloromethane	0.566	0.547	0.526	0.526	0.531		0.539	3.2
4-Methyl-2-Pentanone	0.453	0.490	0.472	0.475	0.478		0.473	2.8
Toluene	1.732	1.781	1.675	1.658	1.698		1.709	2.9
t-1,3-Dichloropropene	0.509	0.529	0.535	0.538	0.551		0.532	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	RRF005	RRF020	RRF050	RRF100	RRF150	RRFCAL	$\overline{RRF}$	% RSD
cis-1,3-Dichloropropene	0.535	0.580	0.567	0.580	0.592		0.571	3.8
1,1,2-Trichloroethane	0.340	0.353	0.336	0.330	0.328		0.337	3
2-Hexanone	0.325	0.355	0.349	0.354	0.351		0.347	3.6
Dibromochloromethane	0.378	0.400	0.401	0.397	0.398		0.395	2.5
1,2-Dibromoethane	0.334	0.357	0.337	0.339	0.339		0.341	2.6
Tetrachloroethene	0.313	0.331	0.310	0.305	0.311		0.314	3.1
Chlorobenzene	1.030	1.071	1.018	1.011	1.028		1.032	2.3
Ethyl Benzene	1.596	1.824	1.829	1.836	1.894		1.796	6.4
m/p-Xylenes	0.615	0.710	0.706	0.695	0.712		0.687	6
o-Xylene	0.569	0.690	0.681	0.683	0.692		0.663	7.9
Styrene	0.911	1.136	1.179	1.154	1.180		1.112	10.2
Bromoform	0.254	0.262	0.269	0.270	0.268		0.265	2.6
Isopropylbenzene	1.407	1.671	1.715	1.692	1.752		1.647	8.3
1,1,2,2-Tetrachloroethane	0.555	0.568	0.529	0.510	0.509		0.534	4.9
1,3,5-Trimethylbenzene	1.193	1.438	1.480	1.442	1.485		1.408	8.6
1,3-Dichlorobenzene	0.736	0.812	0.793	0.787	0.801		0.786	3.7
1,4-Dichlorobenzene	0.729	0.784	0.790	0.779	0.801		0.776	3.6
1,2-Dichlorobenzene	0.724	0.821	0.787	0.760	0.780		0.774	4.6
1,2-Dibromo-3-Chloropropane	0.099	0.108	0.106	0.098	0.105		0.103	4.3
1,2,4-Trichlorobenzene	0.308	0.383	0.381	0.390	0.424		0.377	11.2
1,2,3-Trichlorobenzene	0.308	0.383	0.381	0.390	0.424		0.377	11.2
1,2-Dichloroethane-d4	2.444	2.473	2.377	2.353	2.413		2.412	2
Toluene-d8	1.451	1.442	1.416	1.393	1.398		1.420	1.8
4-Bromofluorobenzene	0.482	0.506	0.531	0.538	0.526		0.517	4.4

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