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.: P5051 SAS No.: P5051 SDG No.: P5051

Instrument ID: MSVOA_N Calibration Date(s): 12/06/2024 12/06/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:02 11:37

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

LAB FILE ID: RRF005 = VN085117.D RRF020 = VN085118.D RRF050 = VN085119.D
RRF100 = VN085120.D RRF150 = VN085121.D RRF =

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	2.072	2.467	2.334	2.565	2.563		2.400	8.6
Chloromethane	2.058	2.093	2.013	2.202	2.256		2.124	4.8
Vinyl Chloride	2.171	2.147	2.026	2.258	2.263		2.173	4.5
Bromomethane	1.578	1.334	1.261	1.364	1.361		1.380	8.6
Chloroethane	1.331	1.302	1.259	1.382	1.401		1.335	4.4
Trichlorofluoromethane	3.495	3.461	3.321	3.725	3.781		3.557	5.4
1,1,2-Trichlorotrifluoroethane	1.976	1.924	1.900	2.062	2.084		1.989	4.1
1,1-Dichloroethene	1.669	1.752	1.743	1.978	1.993		1.827	8.1
Acetone	0.217	0.228	0.233	0.270	0.264		0.243	9.6
Carbon Disulfide	5.377	5.368	5.062	5.709	5.789		5.461	5.4
Methyl tert-Butyl Ether	4.744	5.454	5.524	6.311	6.507		5.708	12.5
Methyl Acetate	2.041	2.062	2.033	2.305	2.337		2.155	7
Methylene Chloride	2.198	2.012	1.927	2.127	2.100		2.073	5.1
trans-1,2-Dichloroethene	1.876	1.799	1.782	2.012	2.027		1.899	6.1
1,1-Dichloroethane	3.621	3.416	3.269	3.705	3.693		3.541	5.4
Cyclohexane	0.458	0.563	0.563	0.591	0.584		0.552	9.8
2-Butanone	0.207	0.217	0.218	0.235	0.234		0.222	5.4
Carbon Tetrachloride	0.619	0.587	0.566	0.591	0.593		0.591	3.2
cis-1,2-Dichloroethene	2.011	2.125	2.092	2.320	2.366		2.183	7
Chloroform	3.779	3.635	3.508	3.813	3.814		3.710	3.6
1,1,1-Trichloroethane	0.683	0.665	0.619	0.657	0.652		0.655	3.6
Methylcyclohexane	0.453	0.481	0.526	0.579	0.593		0.526	11.5
Benzene	1.581	1.501	1.456	1.543	1.523		1.521	3.1
1,2-Dichloroethane	0.564	0.505	0.491	0.518	0.510		0.518	5.4
Trichloroethene	0.367	0.356	0.344	0.373	0.371		0.362	3.4
1,2-Dichloropropane	0.388	0.370	0.351	0.366	0.368		0.368	3.7
Bromodichloromethane	0.596	0.554	0.541	0.565	0.568		0.565	3.6
4-Methyl-2-Pentanone	0.431	0.494	0.483	0.524	0.516		0.490	7.5
Toluene	1.780	1.713	1.680	1.799	1.777		1.750	2.9
t-1,3-Dichloropropene	0.518	0.517	0.541	0.592	0.603		0.554	7.4

* 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	RRF	$\overline{RRF}$	% RSD
cis-1,3-Dichloropropene	0.581	0.590	0.583	0.629	0.636		0.604	4.4
1,1,2-Trichloroethane	0.387	0.355	0.336	0.353	0.349		0.356	5.2
2-Hexanone	0.314	0.376	0.371	0.402	0.391		0.371	9.2
Dibromochloromethane	0.455	0.426	0.413	0.438	0.438		0.434	3.7
1,2-Dibromoethane	0.358	0.348	0.348	0.371	0.369		0.359	3.1
Tetrachloroethene	0.407	0.358	0.342	0.359	0.351		0.363	7
Chlorobenzene	1.074	1.056	1.037	1.121	1.113		1.080	3.3
Ethyl Benzene	1.626	1.739	1.845	2.032	2.041		1.857	9.8
m/p-Xylenes	0.601	0.713	0.706	0.775	0.775		0.714	10
o-Xylene	0.561	0.648	0.681	0.734	0.729		0.671	10.5
Styrene	0.892	1.097	1.164	1.270	1.266		1.138	13.7
Bromoform	0.294	0.275	0.282	0.301	0.302		0.291	4.1
Isopropylbenzene	1.409	1.656	1.747	1.932	1.903		1.730	12.3
1,1,2,2-Tetrachloroethane	0.551	0.532	0.503	0.526	0.521		0.526	3.3
1,3,5-Trimethylbenzene	1.241	1.441	1.488	1.630	1.609		1.482	10.6
1,3-Dichlorobenzene	0.779	0.765	0.772	0.842	0.816		0.795	4.1
1,4-Dichlorobenzene	0.725	0.742	0.759	0.829	0.818		0.775	6
1,2-Dichlorobenzene	0.743	0.721	0.734	0.787	0.767		0.750	3.5
1,2-Dibromo-3-Chloropropane	0.095	0.103	0.101	0.112	0.116		0.105	8
1,2,4-Trichlorobenzene	0.280	0.342	0.364	0.421	0.431		0.367	16.8
1,2,3-Trichlorobenzene	0.280	0.342	0.364	0.421	0.431		0.367	16.8
1,2-Dichloroethane-d4	2.462	2.393	2.263	2.370	2.414		2.380	3.1
Toluene-d8	1.462	1.443	1.392	1.372	1.367		1.407	3.1
4-Bromofluorobenzene	0.479	0.495	0.500	0.509	0.499		0.496	2.2

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