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

Lab Name: CHEMTECH Contract: TETR16

Lab Code: CHEM Case No.: P5292 SAS No.: P5292 SDG No.: P5292

Instrument ID: MSVOA_L Calibration Date(s): 12/16/2024 12/16/2024

Heated Purge: (Y/N) N Calibration Time(s): 13:30 16:41

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

LAB FILE ID: RRF010 = VL041752.D RRF002 = VL041753.D RRF001 = VL041754.D
RRF0.5 = VL041755.D RRF0.1 = VL041756.D RRF.03 = VL041757.D

COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	1.682	1.840	1.927	1.886			1.779	8.6
Chloromethane	0.630	0.736	0.729	0.737			0.696	7.5
Vinyl Chloride	0.625	0.689	0.695	0.682	0.673	0.909	0.701	13.6
Bromomethane	0.295	0.343	0.363	0.343			0.331	8.3
Chloroethane	0.254	0.297	0.267	0.282			0.272	6.3
Tetrahydrofuran	0.427	0.455	0.488	0.455			0.451	5.5
Trichlorofluoromethane	1.791	1.943	1.915	1.981			1.890	4.3
1,1,2-Trichlorotrifluoroethane	1.341	1.466	1.504	1.491			1.438	4.9
Dichlorotetrafluoroethane	1.461	1.616	1.659	1.712			1.593	6.5
tert-Butyl alcohol	1.833	1.975	2.024	1.999			1.930	5
Heptane	1.705	1.875	1.821	1.950			1.816	5.6
1,1-Dichloroethene	0.565	0.622	0.628	0.608			0.603	4.2
Acetone	1.461	2.047	2.284	2.474			1.946	24
Carbon Disulfide	1.346	1.202	1.237	1.024			1.238	11.3
Methyl tert-Butyl Ether	1.098	1.115	1.295	1.033			1.114	9.7
Methylene Chloride	0.477	0.562	0.587	0.653			0.555	12.9
trans-1,2-Dichloroethene	0.640	0.697	0.698	0.749			0.690	6
1,1-Dichloroethane	1.311	1.414	1.459	1.458			1.396	4.9
Cyclohexane	1.096	1.215	1.187	1.217			1.169	4.6
2-Butanone	0.736	0.860	0.820	0.869			0.805	8.1
Carbon Tetrachloride	0.756	0.758	0.716	0.634	0.657	0.671	0.710	7.9
cis-1,2-Dichloroethene	1.331	1.460	1.519	1.430			1.419	5.4
Chloroform	1.969	2.138	2.182	2.155			2.093	4.4
1,1,1-Trichloroethane	2.028	2.101	2.186	2.158	2.113	2.218	2.128	3
2,2,4-Trimethylpentane	1.674	1.842	1.809	1.826			1.767	4.6
Benzene	0.975	1.059	1.080	1.079			1.034	5.2
1,2-Dichloroethane	0.608	0.650	0.642	0.690			0.644	4.7
Trichloroethene	0.388	0.428	0.437	0.408	0.469	0.551	0.439	12.9
1,2-Dichloropropane	0.353	0.388	0.395	0.382			0.374	5.4
Bromodichloromethane	0.777	0.730	0.735	0.664			0.740	6.9

* 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	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
4-Methyl-2-Pentanone	1.060	1.149	1.130	1.062			1.095	3.7
Toluene	1.123	1.215	1.207	1.183			1.173	3.5
t-1,3-Dichloropropene	0.423	0.407	0.393	0.382			0.408	5.3
cis-1,3-Dichloropropene	0.533	0.522	0.493	0.500			0.518	4
1,1,2-Trichloroethane	0.368	0.406	0.402	0.408			0.391	5.1
Dibromochloromethane	0.593	0.540	0.493	0.433			0.534	13.6
1,2-Dibromoethane	0.512	0.542	0.545	0.540	0.565		0.538	3.3
Tetrachloroethene	0.343	0.372	0.395	0.346	0.333	0.555	0.385	20.2
Chlorobenzene	0.951	1.088	1.078	1.053			1.023	6.8
Ethyl Benzene	1.774	1.931	1.834	1.694			1.800	4.9
m/p-Xylene	1.417	1.522	1.467	1.423			1.448	3.3
o-Xylene	1.421	1.560	1.492	1.382			1.452	5
Styrene	0.674	0.636	0.598	0.544			0.628	9.3
Bromoform	0.498	0.443	0.395	0.328			0.437	17.8
1,1,2,2-Tetrachloroethane	0.841	0.907	0.909	0.953	0.936	0.979	0.909	6
2-Chlorotoluene	1.616	1.760	1.699	1.640			1.665	3.8
1,3,5-Trimethylbenzene	1.465	1.483	1.378	1.324			1.422	4.8
1,2,4-Trimethylbenzene	1.566	1.619	1.519	1.396			1.529	5.4
1,3-Dichlorobenzene	0.929	0.994	1.015	1.023			0.975	5.2
1,4-Dichlorobenzene	0.931	0.992	0.972	0.996			0.963	3.5
1,2-Dichlorobenzene	0.865	0.983	0.978	1.009			0.938	7.7
1,2,4-Trichlorobenzene	0.621	0.592	0.553	0.536			0.582	6.3
Hexachloro-1,3-Butadiene	0.586	0.773	0.756	0.786			0.695	15.1
1,3-Butadiene	0.685	0.777	0.779	0.891			0.766	10.7
Naphthalene	1.258	1.154	1.046	0.928	0.754		1.065	18.6
4-Ethyltoluene	1.731	1.794	1.659	1.681			1.713	3.1
1-Bromo-4-Fluorobenzene	0.848	0.844	0.819	0.834	0.829	0.827	0.833	1.2
Hexane	1.303	1.423	1.403	1.423			1.374	4.3
Allyl Chloride	1.012	1.092	1.126	1.008			1.055	4.9
1,4-Dioxane	166.814	186.511	181.136	212.045			182.757	10.1

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COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Methyl Methacrylate	0.395	0.406	0.394	0.372			0.394	3.4

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