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

Lab Name: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: P5270 SAS No.: P5270 SDG No.: P5270

Instrument ID: MSVOA_N Calibration Date(s): 11/22/2024 11/22/2024

Heated Purge: (Y/N) N Calibration Time(s): 11:22 13:45

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

LAB FILE ID: RRF100 = VN085005.D RRF050 = VN085006.D RRF020 = VN085007.D
RRF010 = VN085008.D RRF005 = VN085009.D RRF001 = VN085010.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.579	0.560	0.567	0.538	0.590	0.558	0.565	3.2
Chloromethane	0.572	0.591	0.599	0.603	0.664	0.906	0.656	19.3
Vinyl Chloride	0.597	0.575	0.579	0.569	0.608	0.608	0.589	2.9
Bromomethane	0.316	0.311	0.327	0.331	0.366		0.330	6.5
Chloroethane	0.370	0.379	0.380	0.390	0.407	0.458	0.397	8.1
Trichlorofluoromethane	1.021	0.965	1.005	0.947	1.041	1.036	1.002	3.9
1,1,2-Trichlorotrifluoroethane	0.590	0.551	0.569	0.551	0.576	0.573	0.569	2.7
1,1-Dichloroethene	0.547	0.524	0.534	0.506	0.543	0.531	0.531	2.8
Acetone	0.229	0.203	0.206	0.203	0.195	0.209	0.207	5.5
Carbon Disulfide	1.511	1.472	1.535	1.462	1.590	1.829	1.566	8.7
Methyl tert-butyl Ether	1.860	1.768	1.764	1.663	1.675	1.674	1.734	4.5
Methyl Acetate	0.657	0.656	0.696	0.714	0.855	1.244	0.804	28.4
Methylene Chloride	0.603	0.588	0.619	0.610	0.630	0.748	0.633	9.2
trans-1,2-Dichloroethene	0.570	0.558	0.565	0.519	0.568	0.571	0.558	3.5
1,1-Dichloroethane	1.091	1.049	1.084	1.033	1.092	1.116	1.078	2.8
Cyclohexane	0.914	0.882	0.942	0.915	1.091		0.949	8.7
2-Butanone	0.341	0.331	0.340	0.317	0.328	0.377	0.339	6
Carbon Tetrachloride	0.572	0.534	0.543	0.484	0.529	0.500	0.527	5.9
cis-1,2-Dichloroethene	0.667	0.657	0.672	0.634	0.681	0.729	0.673	4.7
Bromochloromethane	0.409	0.395	0.409	0.390	0.399	0.438	0.407	4.2
Chloroform	1.118	1.099	1.104	1.073	1.140	1.344	1.146	8.6
1,1,1-Trichloroethane	1.047	1.013	1.022	0.993	1.005	1.135	1.036	5
Methylcyclohexane	0.574	0.507	0.486	0.430	0.469	0.382	0.475	13.9
Benzene	1.528	1.424	1.443	1.358	1.452	1.462	1.445	3.8
1,2-Dichloroethane	0.514	0.481	0.497	0.452	0.529	0.492	0.494	5.4
Trichloroethene	0.352	0.327	0.338	0.320	0.347	0.330	0.336	3.6
1,2-Dichloropropane	0.369	0.349	0.351	0.340	0.352	0.374	0.356	3.7
Bromodichloromethane	0.554	0.522	0.520	0.488	0.520	0.540	0.524	4.3
4-Methyl-2-Pentanone	0.414	0.406	0.406	0.382	0.394	0.361	0.394	5
Toluene	0.932	0.887	0.881	0.792	0.859	0.780	0.855	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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RRF010 = VN085008.D RRF005 = VN085009.D RRF001 = VN085010.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.574	0.549	0.539	0.486	0.479	0.525	0.525	7
cis-1,3-Dichloropropene	0.617	0.576	0.571	0.506	0.533	0.541	0.557	7
1,1,2-Trichloroethane	0.336	0.322	0.324	0.314	0.314	0.301	0.319	3.7
2-Hexanone	0.315	0.312	0.317	0.280	0.297	0.245	0.295	9.4
Dibromochloromethane	0.410	0.386	0.392	0.350	0.387	0.411	0.389	5.7
1,2-Dibromoethane	0.342	0.330	0.328	0.318	0.338	0.323	0.330	2.7
Tetrachloroethene	0.350	0.328	0.340	0.322	0.374	0.307	0.337	7
Chlorobenzene	1.128	1.090	1.123	1.089	1.133	1.241	1.134	4.9
Ethyl Benzene	2.063	1.945	1.880	1.698	1.809	1.644	1.840	8.5
m/p-Xylenes	0.778	0.737	0.732	0.663	0.666	0.626	0.700	8.2
o-Xylene	0.733	0.707	0.685	0.641	0.633	0.598	0.666	7.6
Styrene	1.248	1.195	1.178	1.069	1.038	0.921	1.108	10.9
Bromoform	0.309	0.310	0.299	0.273	0.299	0.289	0.296	4.6
Isopropylbenzene	3.888	3.632	3.605	3.402	3.464	3.175	3.527	6.8
1,1,2,2-Tetrachloroethane	1.076	1.103	1.152	1.148	1.231	1.517	1.205	13.4
1,3-Dichlorobenzene	1.720	1.717	1.785	1.744	1.941	2.326	1.872	12.7
1,4-Dichlorobenzene	1.726	1.760	1.819	1.788	2.034	2.337	1.911	12.3
1,2-Dichlorobenzene	1.665	1.687	1.756	1.685	1.815	2.157	1.794	10.4
1,2-Dibromo-3-Chloropropane	0.214	0.219	0.227	0.223	0.249	0.265	0.233	8.5
1,2,4-Trichlorobenzene	0.927	0.902	0.949	0.919	0.973	1.178	0.975	10.5
1,2,3-Trichlorobenzene	0.922	0.898	0.944	0.849	0.926	1.041	0.930	6.8
1,2-Dichloroethane-d4	0.738	0.705	0.658	0.735	0.725		0.712	4.6
Dibromofluoromethane	0.361	0.340	0.311	0.330	0.343		0.337	5.4
Toluene-d8	1.326	1.249	1.152	1.162	1.154		1.208	6.4
4-Bromofluorobenzene	0.476	0.467	0.425	0.438	0.454		0.452	4.6

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