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

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: MSVOA_Y Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Calibration Time(s): 12:39 14:52

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

LAB FILE ID: RRF005 = VY020075.D RRF010 = VY020076.D RRF020 = VY020077.D
RRF050 = VY020078.D RRF100 = VY020079.D RRF150 = VY020080.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.507	0.488	0.482	0.381	0.456	0.463	0.463	9.5
Chloromethane	0.831	0.835	0.791	0.683	0.731	0.728	0.767	8.1
Vinyl Chloride	0.867	0.874	0.835	0.754	0.809	0.799	0.823	5.5
Bromomethane	0.631	0.574	0.545	0.480	0.521	0.528	0.546	9.5
Chloroethane	0.562	0.555	0.546	0.486	0.527	0.511	0.531	5.5
Trichlorofluoromethane	1.025	1.018	1.037	0.927	1.012	1.014	1.005	3.9
1,1,2-Trichlorotrifluoroethane	0.597	0.584	0.567	0.509	0.561	0.565	0.564	5.3
1,1-Dichloroethene	0.534	0.578	0.536	0.493	0.543	0.552	0.540	5.1
Acetone	0.134	0.138	0.138	0.140	0.165	0.155	0.145	8.5
Carbon Disulfide	1.790	1.835	1.806	1.674	1.832	1.837	1.796	3.5
Methyl tert-butyl Ether	1.229	1.344	1.376	1.241	1.483	1.471	1.357	8
Methyl Acetate	0.314	0.357	0.351	0.317	0.362	0.342	0.340	6
Methylene Chloride	0.807	0.716	0.641	0.555	0.597	0.597	0.652	14.3
trans-1,2-Dichloroethene	0.611	0.618	0.613	0.564	0.616	0.628	0.609	3.7
1,1-Dichloroethane	1.155	1.209	1.189	1.070	1.194	1.200	1.170	4.5
Cyclohexane	1.284	1.206	1.138	0.986	1.093	1.088	1.132	9.1
2-Butanone	0.187	0.197	0.192	0.179	0.219	0.206	0.197	7.3
Carbon Tetrachloride	0.467	0.491	0.499	0.462	0.519	0.524	0.494	5.2
cis-1,2-Dichloroethene	0.646	0.714	0.715	0.646	0.740	0.736	0.700	6.1
Bromochloromethane	0.572	0.562	0.527	0.505	0.553	0.567	0.548	4.8
Chloroform	1.141	1.170	1.186	1.068	1.196	1.203	1.161	4.3
1,1,1-Trichloroethane	0.986	1.026	1.009	0.950	1.041	1.069	1.013	4.1
Methylcyclohexane	0.603	0.602	0.631	0.578	0.665	0.661	0.623	5.6
Benzene	1.414	1.405	1.455	1.325	1.504	1.498	1.433	4.7
1,2-Dichloroethane	0.379	0.391	0.402	0.365	0.425	0.418	0.397	5.8
Trichloroethene	0.328	0.331	0.332	0.307	0.348	0.346	0.332	4.4
1,2-Dichloropropane	0.323	0.331	0.357	0.320	0.363	0.364	0.343	6
Bromodichloromethane	0.459	0.476	0.487	0.451	0.526	0.522	0.487	6.4
4-Methyl-2-Pentanone	0.190	0.223	0.238	0.219	0.269	0.252	0.232	11.9
Toluene	0.803	0.859	0.900	0.833	0.953	0.953	0.884	7.1

* 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	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.369	0.400	0.436	0.401	0.486	0.487	0.430	11.3
cis-1,3-Dichloropropene	0.446	0.485	0.518	0.484	0.573	0.573	0.513	10
1,1,2-Trichloroethane	0.206	0.225	0.235	0.216	0.257	0.248	0.231	8.4
2-Hexanone	0.131	0.161	0.168	0.158	0.198	0.182	0.166	13.7
Dibromochloromethane	0.256	0.281	0.300	0.273	0.332	0.326	0.295	10.3
1,2-Dibromoethane	0.203	0.214	0.215	0.196	0.233	0.228	0.215	6.7
Tetrachloroethene	0.326	0.316	0.344	0.307	0.344	0.343	0.330	4.8
Chlorobenzene	1.024	1.044	1.094	0.993	1.114	1.124	1.065	5
Ethyl Benzene	1.886	1.934	2.015	1.876	2.114	2.124	1.992	5.5
m/p-Xylenes	0.685	0.693	0.742	0.692	0.779	0.782	0.729	6.2
o-Xylene	0.652	0.662	0.686	0.649	0.745	0.745	0.690	6.5
Styrene	0.985	1.080	1.154	1.093	1.259	1.273	1.141	9.8
Bromoform	0.151	0.162	0.173	0.165	0.202	0.195	0.175	11.4
Isopropylbenzene	4.065	3.829	3.995	3.685	4.099	4.293	3.994	5.3
1,1,2,2-Tetrachloroethane	0.716	0.707	0.698	0.624	0.727	0.719	0.699	5.4
1,3-Dichlorobenzene	1.659	1.521	1.680	1.509	1.703	1.774	1.641	6.4
1,4-Dichlorobenzene	1.680	1.604	1.653	1.487	1.666	1.716	1.634	5
1,2-Dichlorobenzene	1.391	1.384	1.460	1.310	1.483	1.530	1.426	5.6
1,2-Dibromo-3-Chloropropane	0.107	0.104	0.106	0.092	0.114	0.112	0.106	7.6
1,2,4-Trichlorobenzene	0.652	0.708	0.784	0.693	0.865	0.895	0.766	12.8
1,2,3-Trichlorobenzene	0.578	0.606	0.653	0.575	0.737	0.754	0.650	12.1
1,2-Dichloroethane-d4	0.608	0.657	0.578	0.586	0.668	0.647	0.624	6.1
Dibromofluoromethane	0.305	0.317	0.300	0.305	0.340	0.340	0.318	5.7
Toluene-d8	1.187	1.251	1.187	1.224	1.380	1.364	1.265	6.8
4-Bromofluorobenzene	0.371	0.402	0.376	0.399	0.463	0.454	0.411	9.5

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