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

Lab Name: CHEMTECH Contract: BAPS03

Lab Code: CHEM Case No.: P4822 SAS No.: P4822 SDG No.: P4822

Instrument ID: MSVOA_D Calibration Date(s): 11/15/2024 11/15/2024

Heated Purge: (Y/N) Y Calibration Time(s): 10:04 12:18

GC Column: RTX-VMS ID: 0.18 (mm)

LAB FILE ID: RRF005 = VD080020.D RRF010 = VD080021.D RRF020 = VD080022.D
RRF050 = VD080023.D RRF100 = VD080024.D RRF150 = VD080025.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.465	0.388	0.364	0.396	0.396	0.399	0.401	8.4
Chloromethane	0.330	0.348	0.279	0.276	0.281	0.257	0.295	12.1
Vinyl Chloride	0.377	0.390	0.312	0.322	0.330	0.290	0.337	11.5
Bromomethane	0.451	0.498	0.345	0.305	0.347	0.296	0.374	22
Chloroethane	0.254	0.309	0.228	0.208	0.251	0.195	0.241	16.9
Trichlorofluoromethane	0.935	0.919	0.763	0.766	0.824	0.758	0.827	9.8
1,1,2-Trichlorotrifluoroethane	0.571	0.563	0.486	0.481	0.498	0.503	0.517	7.6
1,1-Dichloroethene	0.535	0.540	0.494	0.491	0.519	0.529	0.518	4.1
Acetone	0.101	0.116	0.091	0.106	0.132	0.124	0.112	13.6
Carbon Disulfide	1.724	1.793	1.552	1.554	1.697	1.690	1.668	5.8
Methyl tert-butyl Ether	0.877	1.057	1.011	1.088	1.156	1.153	1.057	9.9
Methyl Acetate	0.270	0.251	0.248	0.214	0.255	0.249	0.248	7.5
Methylene Chloride	0.643	0.628	0.612	0.556	0.581	0.575	0.599	5.6
trans-1,2-Dichloroethene	0.589	0.579	0.536	0.578	0.579	0.576	0.573	3.3
1,1-Dichloroethane	1.015	1.040	0.961	0.973	0.974	0.972	0.989	3.2
Cyclohexane	0.945	0.869	0.780	0.797	0.811	0.828	0.838	7.2
2-Butanone	0.135	0.141	0.139	0.154	0.155	0.152	0.146	5.8
Carbon Tetrachloride	0.521	0.515	0.482	0.491	0.483	0.490	0.497	3.4
cis-1,2-Dichloroethene	0.665	0.649	0.620	0.656	0.675	0.679	0.657	3.2
Bromochloromethane	0.506	0.495	0.416	0.406	0.402	0.415	0.440	10.7
Chloroform	1.057	1.143	1.012	1.019	1.006	1.015	1.042	5
1,1,1-Trichloroethane	0.970	0.930	0.851	0.869	0.864	0.867	0.892	5.3
Methylcyclohexane	0.517	0.515	0.476	0.556	0.583	0.604	0.542	8.9
Benzene	1.391	1.430	1.351	1.436	1.439	1.463	1.418	2.8
1,2-Dichloroethane	0.376	0.382	0.350	0.368	0.367	0.359	0.367	3.1
Trichloroethene	0.378	0.389	0.341	0.361	0.361	0.372	0.367	4.5
1,2-Dichloropropane	0.333	0.345	0.329	0.352	0.342	0.344	0.341	2.5
Bromodichloromethane	0.513	0.504	0.472	0.499	0.492	0.497	0.496	2.8
4-Methyl-2-Pentanone	0.160	0.164	0.172	0.193	0.197	0.193	0.180	9.1
Toluene	0.814	0.864	0.823	0.917	0.927	0.945	0.881	6.4

* 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	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.401	0.440	0.420	0.459	0.465	0.471	0.442	6.2
cis-1,3-Dichloropropene	0.490	0.501	0.506	0.542	0.549	0.555	0.524	5.3
1,1,2-Trichloroethane	0.256	0.276	0.250	0.267	0.262	0.263	0.262	3.4
2-Hexanone	0.108	0.124	0.122	0.147	0.148	0.145	0.132	12.5
Dibromochloromethane	0.317	0.348	0.320	0.349	0.343	0.349	0.338	4.5
1,2-Dibromoethane	0.234	0.251	0.237	0.252	0.256	0.255	0.247	3.9
Tetrachloroethene	0.386	0.365	0.337	0.342	0.352	0.355	0.356	5
Chlorobenzene	1.138	1.102	1.024	1.070	1.095	1.116	1.091	3.6
Ethyl Benzene	1.740	1.714	1.693	1.866	1.965	2.002	1.830	7.3
m/p-Xylenes	0.647	0.688	0.683	0.727	0.766	0.780	0.715	7.2
o-Xylene	0.542	0.595	0.604	0.670	0.720	0.726	0.643	11.5
Styrene	0.969	1.068	1.105	1.212	1.259	1.271	1.148	10.5
Bromoform	0.240	0.222	0.215	0.223	0.222	0.221	0.224	3.8
Isopropylbenzene	3.045	3.093	2.974	3.271	3.463	3.501	3.224	6.9
1,1,2,2-Tetrachloroethane	0.661	0.656	0.585	0.608	0.612	0.597	0.620	5.1
1,3-Dichlorobenzene	1.711	1.653	1.627	1.688	1.735	1.768	1.697	3.1
1,4-Dichlorobenzene	1.809	1.769	1.608	1.661	1.692	1.686	1.704	4.3
1,2-Dichlorobenzene	1.500	1.502	1.408	1.473	1.502	1.494	1.480	2.5
1,2-Dibromo-3-Chloropropane	0.083	0.109	0.090	0.091	0.096	0.093	0.094	8.9
1,2,4-Trichlorobenzene	0.913	0.860	0.855	0.923	1.001	1.014	0.928	7.3
1,2,3-Trichlorobenzene	0.766	0.782	0.751	0.825	0.873	0.891	0.815	7.1
1,2-Dichloroethane-d4	0.554	0.532	0.451	0.526	0.504	0.523	0.515	6.8
Dibromofluoromethane	0.335	0.357	0.285	0.338	0.329	0.354	0.333	7.8
Toluene-d8	1.162	1.249	1.087	1.330	1.303	1.393	1.254	9
4-Bromofluorobenzene	0.388	0.392	0.353	0.435	0.437	0.464	0.411	9.9

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