284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG No.: P3845

Instrument ID: MSVOA_N Calibration Date(s): 09/06/2024 09/06/2024

Heated Purge: (Y/N) N Calibration Time(s): 11:58 13:33

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

LAB FILE ID: RRF150 = VN083690.D RRF100 = VN083691.D RRF050 = VN083692.D
RRF020 = VN083693.D RRF005 = VN083694.D RRF =

COMPOUND	RRF150	RRF100	RRF050	RRF020	RRF005	RRF	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	2.144	2.096	1.956	1.985	1.864		2.009	5.6
Chloromethane	2.157	2.159	1.995	2.050	2.076		2.087	3.4
Vinyl Chloride	2.219	2.261	2.069	2.101	2.079		2.146	4.1
Ethyl Acetate	0.474	0.466	0.425	0.430	0.462		0.451	5
Isopropyl Acetate	0.829	0.837	0.746	0.735	0.758		0.781	6.2
Bromomethane	1.249	1.222	1.121	1.195	1.208		1.199	4
Chloroethane	1.482	1.472	1.303	1.376	1.551		1.437	6.8
Trichlorofluoromethane	3.745	3.724	3.447	3.455	3.618		3.598	4
1,1,2-Trichlorotrifluoroethane	2.083	2.018	1.847	1.837	1.878		1.932	5.7
tert-Butyl Alcohol	0.357	0.347	0.316	0.329	0.320		0.334	5.3
Diethyl Ether	1.311	1.284	1.170	1.187	1.160		1.222	5.7
1,1-Dichloroethene	1.959	1.975	1.785	1.782	1.821		1.865	5.1
Acrolein	0.343	0.362	0.333	0.350	0.252		0.328	13.3
Acrylonitrile	0.958	0.940	0.861	0.871	0.921		0.910	4.7
Acetone	0.386	0.340	0.285	0.272	0.226		0.302	20.5
Carbon Disulfide	5.498	5.449	5.042	5.123	5.236		5.270	3.8
Methyl tert-Butyl Ether	7.123	6.990	6.327	6.456	6.233		6.626	6.1
Methyl Acetate	2.239	2.202	2.034	2.072	2.696		2.249	11.8
Methylene Chloride	2.133	2.155	1.938	1.983	1.991		2.040	4.8
trans-1,2-Dichloroethene	2.032	2.024	1.845	1.891	1.870		1.932	4.6
Vinyl Acetate	0.939	0.923	0.826	0.807	1.116		0.922	13.3
1,1-Dichloroethane	4.011	3.981	3.560	3.618	3.680		3.770	5.6
Cyclohexane	0.592	0.599	0.544	0.534	0.552		0.564	5.2
2-Butanone	0.250	0.240	0.212	0.209	0.210		0.224	8.7
Carbon Tetrachloride	0.576	0.586	0.525	0.512	0.552		0.550	5.8
2,2-Dichloropropane	0.657	0.655	0.579	0.565	0.578		0.607	7.5
cis-1,2-Dichloroethene	2.502	2.460	2.256	2.299	2.244		2.352	5.1
Chloroform	4.234	4.201	3.823	3.886	3.833		3.995	5.1
1,1,1-Trichloroethane	0.662	0.672	0.608	0.600	0.636		0.635	5
Methylcyclohexane	0.621	0.614	0.549	0.525	0.539		0.570	7.8

* 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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Instrument ID: MSVOA_N Calibration Date(s): 09/06/2024 09/06/2024

Heated Purge: (Y/N) N Calibration Time(s): 11:58 13:33

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COMPOUND	RRF150	RRF100	RRF050	RRF020	RRF005	RRF	$\overline{RRF}$	% RSD
1,1-Dichloropropene	0.496	0.503	0.454	0.448	0.478		0.476	5.1
Benzene	1.491	1.502	1.356	1.373	1.417		1.428	4.7
1,2-Dichloroethane	0.548	0.559	0.509	0.509	0.559		0.537	4.8
Trichloroethene	0.347	0.357	0.316	0.310	0.347		0.335	6.3
1,2-Dichloropropane	0.355	0.362	0.327	0.324	0.349		0.344	5
Dibromomethane	0.259	0.262	0.240	0.244	0.250		0.251	3.8
Bromodichloromethane	0.566	0.576	0.512	0.497	0.519		0.534	6.5
4-Methyl-2-Pentanone	0.487	0.492	0.456	0.458	0.485		0.476	3.7
Toluene	1.762	1.783	1.661	1.633	1.782		1.724	4.2
t-1,3-Dichloropropene	0.597	0.607	0.534	0.521	0.551		0.562	6.8
cis-1,3-Dichloropropene	0.626	0.635	0.557	0.538	0.566		0.584	7.4
1,1,2-Trichloroethane	0.333	0.341	0.306	0.302	0.316		0.320	5.4
1,3-Dichloropropane	0.585	0.602	0.547	0.546	0.608		0.577	5.1
2-Chloroethyl vinyl ether	0.230	0.208	0.197	0.229	0.224		0.218	6.6
2-Hexanone	0.386	0.377	0.343	0.340	0.352		0.359	5.7
Dibromochloromethane	0.414	0.418	0.372	0.352	0.362		0.383	7.9
1,2-Dibromoethane	0.352	0.355	0.313	0.310	0.323		0.331	6.5
Tetrachloroethene	0.323	0.330	0.296	0.291	0.348		0.317	7.6
Chlorobenzene	1.067	1.094	1.008	1.014	1.156		1.068	5.7
1,1,1,2-Tetrachloroethane	0.383	0.389	0.360	0.349	0.379		0.372	4.5
Hexachloroethane	0.313	0.324	0.292	0.267	0.269		0.293	8.7
Ethyl Benzene	2.043	2.073	1.879	1.799	2.010		1.961	5.9
m/p-Xylenes	0.757	0.762	0.697	0.673	0.718		0.721	5.3
o-Xylene	0.730	0.741	0.683	0.665	0.672		0.698	5
Styrene	1.233	1.272	1.147	1.102	1.145		1.180	5.9
Bromoform	0.265	0.269	0.237	0.223	0.224		0.244	9
Isopropylbenzene	1.931	1.981	1.809	1.700	1.792		1.843	6.1
1,1,2,2-Tetrachloroethane	0.511	0.529	0.482	0.484	0.510		0.503	4
1,2,3-Trichloropropane	0.450	0.454	0.417	0.423	0.462		0.441	4.5
Bromobenzene	0.420	0.435	0.408	0.396	0.457		0.423	5.7

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COMPOUND	RRF150	RRF100	RRF050	RRF020	RRF005	RRF	$\overline{RRF}$	% RSD
n-propylbenzene	2.266	2.323	2.106	1.989	2.102		2.157	6.3
2-Chlorotoluene	1.363	1.423	1.297	1.256	1.393		1.346	5.1
1,3,5-Trimethylbenzene	1.590	1.653	1.522	1.453	1.478		1.539	5.3
4-Chlorotoluene	1.386	1.433	1.298	1.263	1.445		1.365	5.9
tert-butylbenzene	1.388	1.456	1.282	1.283	1.321		1.346	5.6
1,2,4-Trimethylbenzene	1.613	1.676	1.535	1.444	1.509		1.555	5.8
sec-Butylbenzene	1.935	2.000	1.798	1.667	1.792		1.839	7.1
p-Isopropyltoluene	1.653	1.704	1.524	1.403	1.451		1.547	8.3
1,3-Dichlorobenzene	0.809	0.843	0.772	0.755	0.893		0.815	6.8
1,4-Dichlorobenzene	0.816	0.843	0.771	0.756	0.885		0.814	6.4
n-Butylbenzene	1.492	1.505	1.306	1.208	1.314		1.365	9.4
1,2-Dichlorobenzene	0.807	0.827	0.764	0.729	0.826		0.791	5.4
1,2-Dibromo-3-Chloropropane	0.115	0.115	0.109	0.104	0.110		0.111	4.3
1,2,4-Trichlorobenzene	0.443	0.452	0.411	0.396	0.464		0.433	6.6
Hexachlorobutadiene	0.186	0.187	0.174	0.160	0.190		0.179	7.1
Naphthalene	1.468	1.518	1.365	1.300	1.428		1.416	6
1,2,3-Trichlorobenzene	0.443	0.452	0.411	0.396	0.464		0.433	6.6
1,2-Dichloroethane-d4	2.793	2.739	2.747	2.768	2.665		2.742	1.7
Toluene-d8	1.376	1.374	1.381	1.385	1.429		1.389	1.6
4-Bromofluorobenzene	0.537	0.524	0.519	0.503	0.503		0.517	2.8
n-amyl Acetate	0.767	0.771	0.682	0.641	0.597		0.692	11.1
Allyl chloride	3.528	3.494	3.156	3.113	3.058		3.270	6.8
t-1,4-Dichloro-2-butene	0.207	0.206	0.180	0.171	0.169		0.187	10
Methacrylonitrile	0.257	0.259	0.235	0.244	0.266		0.252	4.9
1,4-Dioxane	6.137	6.351	5.826	6.120	6.018		6.091	3.1
Methyl methacrylate	0.406	0.403	0.363	0.349	0.369		0.378	6.8

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