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

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

Instrument ID: MSVOA_Y Calibration Date(s): 09/09/2024 09/09/2024

Heated Purge: (Y/N) Y Calibration Time(s): 09:52 11:53

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

LAB FILE ID: RRF005 = VY019454.D RRF010 = VY019455.D RRF020 = VY019456.D
RRF050 = VY019457.D RRF100 = VY019458.D RRF150 = VY019459.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.375	0.371	0.373	0.265	0.248	0.264	0.316	19.8
Chloromethane	0.456	0.454	0.442	0.392	0.357	0.380	0.414	10.3
Vinyl Chloride	0.451	0.466	0.476	0.447	0.409	0.435	0.447	5.2
Bromomethane	0.255	0.278	0.273	0.283	0.269	0.291	0.275	4.6
Chloroethane	0.300	0.303	0.299	0.297	0.270	0.286	0.292	4.3
Trichlorofluoromethane	0.760	0.775	0.776	0.733	0.686	0.743	0.746	4.6
1,1,2-Trichlorotrifluoroethane	0.477	0.480	0.476	0.457	0.425	0.453	0.461	4.6
1,1-Dichloroethene	0.457	0.449	0.450	0.447	0.413	0.446	0.444	3.5
Acetone	0.102	0.113	0.106	0.124	0.107	0.109	0.110	6.9
Carbon Disulfide	1.144	1.159	1.161	1.283	1.177	1.266	1.199	5
Methyl tert-butyl Ether	1.146	1.304	1.294	1.313	1.212	1.270	1.256	5.2
Methyl Acetate	0.285	0.314	0.279	0.345	0.283	0.290	0.299	8.5
Methylene Chloride	0.538	0.524	0.513	0.502	0.456	0.485	0.503	5.8
trans-1,2-Dichloroethene	0.488	0.488	0.484	0.500	0.461	0.496	0.486	2.9
1,1-Dichloroethane	0.889	0.945	0.936	0.945	0.862	0.923	0.917	3.7
Cyclohexane	0.969	0.873	0.819	0.803	0.735	0.772	0.829	10
2-Butanone	0.134	0.166	0.159	0.171	0.154	0.158	0.157	8.1
Carbon Tetrachloride	0.440	0.451	0.441	0.437	0.408	0.433	0.435	3.4
cis-1,2-Dichloroethene	0.568	0.592	0.602	0.613	0.564	0.605	0.591	3.4
Bromochloromethane	0.368	0.373	0.378	0.410	0.383	0.402	0.386	4.4
Chloroform	0.909	0.952	0.954	0.967	0.885	0.947	0.936	3.4
1,1,1-Trichloroethane	0.825	0.868	0.851	0.853	0.789	0.847	0.839	3.3
Methylcyclohexane	0.524	0.533	0.514	0.516	0.481	0.513	0.513	3.4
Benzene	1.169	1.235	1.211	1.212	1.118	1.184	1.188	3.5
1,2-Dichloroethane	0.297	0.336	0.325	0.330	0.307	0.324	0.320	4.7
Trichloroethene	0.301	0.309	0.315	0.312	0.288	0.307	0.306	3.1
1,2-Dichloropropane	0.287	0.301	0.299	0.294	0.273	0.289	0.290	3.5
Bromodichloromethane	0.413	0.445	0.431	0.437	0.408	0.428	0.427	3.3
4-Methyl-2-Pentanone	0.181	0.225	0.214	0.222	0.203	0.209	0.209	7.7
Toluene	0.738	0.793	0.775	0.790	0.725	0.764	0.764	3.6

* 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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RRF050 = VY019457.D RRF100 = VY019458.D RRF150 = VY019459.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.366	0.424	0.416	0.426	0.393	0.417	0.407	5.8
cis-1,3-Dichloropropene	0.444	0.491	0.485	0.492	0.453	0.478	0.474	4.3
1,1,2-Trichloroethane	0.209	0.227	0.219	0.231	0.211	0.220	0.219	4
2-Hexanone	0.131	0.166	0.158	0.163	0.149	0.152	0.153	8.2
Dibromochloromethane	0.260	0.302	0.297	0.304	0.281	0.296	0.290	5.8
1,2-Dibromoethane	0.188	0.216	0.211	0.212	0.195	0.204	0.204	5.5
Tetrachloroethene	0.315	0.319	0.313	0.312	0.291	0.307	0.310	3.2
Chlorobenzene	0.961	1.026	1.010	0.995	0.925	0.983	0.984	3.7
Ethyl Benzene	1.739	1.856	1.796	1.769	1.626	1.701	1.748	4.5
m/p-Xylenes	0.656	0.688	0.682	0.670	0.620	0.650	0.661	3.7
o-Xylene	0.646	0.673	0.667	0.656	0.601	0.635	0.646	4
Styrene	1.061	1.143	1.126	1.112	1.031	1.073	1.091	3.9
Bromoform	0.173	0.207	0.196	0.205	0.189	0.198	0.195	6.3
Isopropylbenzene	3.732	3.822	3.698	3.613	3.336	3.563	3.627	4.7
1,1,2,2-Tetrachloroethane	0.589	0.684	0.652	0.665	0.617	0.654	0.644	5.4
1,3-Dichlorobenzene	1.564	1.622	1.612	1.575	1.453	1.554	1.563	3.8
1,4-Dichlorobenzene	1.554	1.596	1.594	1.565	1.452	1.548	1.551	3.4
1,2-Dichlorobenzene	1.367	1.448	1.414	1.422	1.315	1.404	1.395	3.4
1,2-Dibromo-3-Chloropropane	0.099	0.116	0.105	0.110	0.103	0.110	0.107	5.5
1,2,4-Trichlorobenzene	0.810	0.837	0.858	0.874	0.817	0.894	0.848	3.9
1,2,3-Trichlorobenzene	0.664	0.719	0.738	0.754	0.705	0.776	0.726	5.4
1,2-Dichloroethane-d4	0.420	0.462	0.466	0.485	0.465	0.480	0.463	5
Dibromofluoromethane	0.264	0.291	0.287	0.290	0.279	0.288	0.283	3.7
Toluene-d8	0.986	1.073	1.055	1.084	1.033	1.060	1.049	3.4
4-Bromofluorobenzene	0.425	0.414	0.407	0.400	0.385	0.389	0.403	3.8

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