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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: P5194 SAS No.: P5194 SDG No.: P5194

Instrument ID: MSVOA_Y Calibration Date(s): 12/02/2024 12/02/2024

Heated Purge: (Y/N) Y Calibration Time(s): 09:16 11:09

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

LAB FILE ID: RRF005 = VY020472.D RRF010 = VY020473.D RRF020 = VY020474.D
RRF050 = VY020475.D RRF100 = VY020476.D RRF150 = VY020477.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.506	0.450	0.422	0.527	0.509	0.512	0.488	8.5
Chloromethane	0.534	0.456	0.433	0.525	0.497	0.518	0.494	8.2
Vinyl Chloride	0.526	0.476	0.443	0.540	0.511	0.526	0.503	7.4
Bromomethane	0.322	0.285	0.254	0.307	0.298	0.306	0.295	8
Chloroethane	0.325	0.298	0.285	0.317	0.308	0.318	0.309	4.8
Trichlorofluoromethane	1.019	0.919	0.858	0.971	0.929	0.962	0.943	5.8
1,1,2-Trichlorotrifluoroethane	0.615	0.548	0.530	0.551	0.516	0.537	0.549	6.3
1,1-Dichloroethene	0.560	0.505	0.472	0.534	0.511	0.532	0.519	5.8
Acetone	0.134	0.111	0.099	0.146	0.126	0.142	0.126	14.4
Carbon Disulfide	1.446	1.331	1.244	1.660	1.588	1.645	1.486	11.7
Methyl tert-butyl Ether	1.468	1.275	1.213	1.358	1.273	1.366	1.326	6.8
Methyl Acetate	0.302	0.270	0.235	0.279	0.248	0.279	0.269	9
Methylene Chloride	0.588	0.536	0.499	0.537	0.524	0.544	0.538	5.4
trans-1,2-Dichloroethene	0.648	0.565	0.528	0.580	0.564	0.573	0.576	6.8
1,1-Dichloroethane	1.215	1.144	1.053	1.092	1.058	1.089	1.108	5.5
Cyclohexane	1.172	1.028	0.912	0.999	0.949	0.951	1.002	9.3
2-Butanone	0.171	0.149	0.137	0.179	0.151	0.171	0.160	10.2
Carbon Tetrachloride	0.670	0.639	0.600	0.649	0.619	0.629	0.634	3.8
cis-1,2-Dichloroethene	0.723	0.677	0.644	0.675	0.648	0.672	0.673	4.2
Bromochloromethane	0.447	0.385	0.364	0.445	0.419	0.423	0.414	8.1
Chloroform	1.268	1.164	1.086	1.111	1.085	1.111	1.137	6.2
1,1,1-Trichloroethane	1.217	1.120	1.030	1.084	1.055	1.066	1.095	6.1
Methylcyclohexane	0.669	0.643	0.602	0.693	0.676	0.674	0.660	4.9
Benzene	1.687	1.588	1.474	1.586	1.531	1.538	1.567	4.6
1,2-Dichloroethane	0.436	0.414	0.381	0.428	0.397	0.415	0.412	4.9
Trichloroethene	0.409	0.387	0.373	0.388	0.379	0.381	0.386	3.2
1,2-Dichloropropane	0.414	0.371	0.354	0.360	0.348	0.353	0.367	6.7
Bromodichloromethane	0.588	0.539	0.507	0.531	0.515	0.531	0.535	5.3
4-Methyl-2-Pentanone	0.222	0.206	0.190	0.225	0.199	0.218	0.210	6.7
Toluene	1.027	0.984	0.924	0.995	0.963	0.974	0.978	3.5

* 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	0.503	0.463	0.445	0.496	0.477	0.497	0.480	4.7
cis-1,3-Dichloropropene	0.595	0.556	0.534	0.581	0.563	0.577	0.568	3.8
1,1,2-Trichloroethane	0.258	0.252	0.227	0.247	0.231	0.238	0.242	4.9
2-Hexanone	0.154	0.140	0.131	0.172	0.149	0.163	0.152	9.9
Dibromochloromethane	0.371	0.336	0.311	0.346	0.323	0.337	0.337	6
1,2-Dibromoethane	0.245	0.215	0.207	0.227	0.213	0.223	0.222	6.1
Tetrachloroethene	0.456	0.434	0.400	0.420	0.408	0.417	0.422	4.8
Chlorobenzene	1.336	1.297	1.200	1.233	1.213	1.240	1.253	4.2
Ethyl Benzene	2.481	2.386	2.268	2.344	2.291	2.325	2.349	3.2
m/p-Xylenes	0.909	0.881	0.837	0.848	0.839	0.847	0.860	3.3
o-Xylene	0.841	0.834	0.779	0.805	0.780	0.796	0.806	3.3
Styrene	1.403	1.379	1.293	1.347	1.311	1.334	1.344	3.1
Bromoform	0.248	0.224	0.211	0.230	0.213	0.230	0.226	5.9
Isopropylbenzene	5.309	4.936	4.771	4.571	4.664	4.775	4.838	5.4
1,1,2,2-Tetrachloroethane	0.794	0.697	0.662	0.685	0.644	0.692	0.696	7.5
1,3-Dichlorobenzene	2.129	1.990	1.872	1.846	1.850	1.905	1.932	5.7
1,4-Dichlorobenzene	2.082	1.949	1.853	1.809	1.797	1.859	1.892	5.7
1,2-Dichlorobenzene	1.772	1.698	1.595	1.579	1.548	1.639	1.639	5.1
1,2-Dibromo-3-Chloropropane	0.112	0.106	0.096	0.108	0.099	0.111	0.105	6.4
1,2,4-Trichlorobenzene	0.919	0.890	0.825	0.921	0.965	1.007	0.921	6.8
1,2,3-Trichlorobenzene	0.715	0.722	0.666	0.759	0.782	0.818	0.743	7.3
1,2-Dichloroethane-d4	0.582	0.471	0.439	0.557	0.491	0.511	0.509	10.5
Dibromofluoromethane	0.352	0.296	0.275	0.346	0.308	0.311	0.315	9.4
Toluene-d8	1.315	1.127	1.059	1.320	1.183	1.188	1.199	8.6
4-Bromofluorobenzene	0.504	0.389	0.364	0.451	0.403	0.405	0.419	12

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