CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHAZ02

Lab Code: CHEM Case No.: M1785 SAS No.: M1785 SDG No.: M1785

Instrument ID: MSVOA_X Calibration Date(s): 03/24/2021 03/24/2021

Heated Purge: (Y/N) N Calibration Time(s): 10:04 11:58

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX021424.D RRF005 = VX021425.D RRF020 = VX021426.D
RRF050 = VX021427.D RRF100 = VX021428.D RRF150 = VX021429.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.557	0.560	0.518	0.554	0.574	0.534	0.550	3.7
Chloromethane	0.967	0.763	0.596	0.611	0.640	0.631	0.702	20.4
Vinyl Chloride	0.515	0.581	0.532	0.572	0.599	0.574	0.562	5.7
Bromomethane		0.249	0.229	0.220	0.220	0.213	0.226	6.1
Chloroethane	0.359	0.388	0.335	0.358	0.369	0.330	0.357	6.1
Trichlorofluoromethane	0.840	1.007	0.872	0.940	0.941	0.886	0.914	6.6
1,1,2-Trichlorotrifluoroethane	0.509	0.542	0.492	0.511	0.529	0.505	0.515	3.5
1,1-Dichloroethene	0.544	0.528	0.465	0.483	0.511	0.494	0.504	5.8
Acetone	0.337	0.319	0.281	0.307	0.319	0.325	0.315	6
Carbon Disulfide	1.764	1.372	1.249	1.353	1.392	1.359	1.415	12.6
Methyl tert-butyl Ether	1.705	1.924	1.752	1.905	1.993	2.010	1.882	6.7
Methyl Acetate	0.781	0.868	0.860	0.943	0.989	1.012	0.909	9.7
Methylene Chloride	0.662	0.641	0.551	0.596	0.612	0.620	0.614	6.2
trans-1,2-Dichloroethene	0.548	0.580	0.508	0.551	0.573	0.560	0.553	4.6
1,1-Dichloroethane	0.984	1.146	0.999	1.079	1.117	1.102	1.071	6.1
Cyclohexane		0.911	0.850	0.938	0.959	0.916	0.915	4.5
2-Butanone	0.435	0.501	0.437	0.479	0.501	0.509	0.477	7
Carbon Tetrachloride	0.477	0.560	0.486	0.546	0.555	0.534	0.526	6.8
cis-1,2-Dichloroethene	0.612	0.660	0.590	0.644	0.675	0.675	0.643	5.5
Bromochloromethane	0.564	0.611	0.494	0.505	0.521	0.522	0.536	8.1
Chloroform	1.004	1.192	1.065	1.149	1.182	1.192	1.131	6.9
1,1,1-Trichloroethane	0.909	1.051	0.942	1.023	1.054	1.031	1.002	6.1
Methylcyclohexane	0.519	0.545	0.493	0.571	0.576	0.555	0.543	5.9
Benzene	1.276	1.456	1.268	1.437	1.458	1.451	1.391	6.7
1,2-Dichloroethane	0.540	0.646	0.557	0.619	0.625	0.632	0.603	7.2
Trichloroethene	0.366	0.374	0.335	0.371	0.379	0.378	0.367	4.5
1,2-Dichloropropane	0.341	0.392	0.345	0.392	0.394	0.397	0.377	7
Bromodichloromethane	0.494	0.570	0.514	0.581	0.594	0.600	0.559	7.9
4-Methyl-2-Pentanone	0.461	0.568	0.534	0.597	0.618	0.617	0.566	10.7
Toluene	0.732	0.847	0.810	0.906	0.925	0.935	0.859	9.2
t-1,3-Dichloropropene	0.465	0.533	0.501	0.599	0.637	0.652	0.564	13.5
cis-1,3-Dichloropropene	0.493	0.592	0.544	0.639	0.661	0.674	0.601	11.8
1,1,2-Trichloroethane	0.304	0.366	0.347	0.379	0.391	0.390	0.363	9.1

* 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	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
2-Hexanone	0.353	0.415	0.398	0.449	0.466	0.468	0.425	10.5
Dibromochloromethane	0.339	0.390	0.378	0.433	0.453	0.444	0.406	10.9
1,2-Dibromoethane	0.341	0.380	0.357	0.413	0.424	0.422	0.390	9.1
Tetrachloroethene	0.307	0.362	0.316	0.345	0.336	0.342	0.335	6
Chlorobenzene	0.909	1.053	0.910	1.029	1.075	1.052	1.004	7.5
Ethyl Benzene	1.628	1.851	1.703	1.900	1.989	1.914	1.831	7.5
m/p-Xylenes	0.543	0.662	0.613	0.686	0.720	0.690	0.652	9.9
o-Xylene	0.532	0.634	0.596	0.660	0.691	0.679	0.632	9.4
Styrene	0.935	1.038	1.013	1.133	1.213	1.187	1.086	10
Bromoform	0.287	0.298	0.286	0.325	0.341	0.339	0.313	8.1
Isopropylbenzene	3.009	3.659	3.259	3.757	3.772	3.624	3.513	8.8
1,1,2,2-Tetrachloroethane	1.158	1.299	1.206	1.260	1.261	1.264	1.241	4.1
n-propylbenzene	3.779	4.157	3.843	4.384	4.445	4.285	4.149	6.7
1,3,5-Trimethylbenzene	2.534	3.094	2.805	3.212	3.238	3.125	3.001	9.2
tert-Butylbenzene	2.647	2.902	2.687	3.064	3.184	3.050	2.922	7.4
1,2,4-Trimethylbenzene	2.493	3.118	2.872	3.225	3.272	3.173	3.026	9.8
sec-Butylbenzene	2.843	3.402	3.141	3.632	3.681	3.525	3.371	9.6
1,3-Dichlorobenzene	1.495	1.609	1.412	1.595	1.660	1.638	1.568	6.1
1,4-Dichlorobenzene	1.740	1.648	1.463	1.606	1.616	1.660	1.622	5.6
n-Butylbenzene	2.388	2.745	2.531	3.021	3.110	3.072	2.811	10.8
1,2-Dichlorobenzene	1.414	1.587	1.427	1.537	1.591	1.592	1.525	5.5
1,2-Dibromo-3-Chloropropane	0.207	0.307	0.263	0.301	0.316	0.325	0.286	15.5
1,2,4-Trichlorobenzene	0.949	0.929	0.823	1.028	1.116	1.152	0.999	12.4
1,2,3-Trichlorobenzene	0.976	0.936	0.905	1.028	1.064	1.083	0.999	7.1
1,2-Dichloroethane-d4		0.893	0.772	0.781	0.837	0.877	0.832	6.6
Dibromofluoromethane		0.377	0.320	0.337	0.364	0.378	0.355	7.2
Toluene-d8		1.249	1.150	1.242	1.315	1.372	1.266	6.6
4-Bromofluorobenzene		0.479	0.441	0.476	0.521	0.544	0.492	8.2
1,4-Dioxane	7.461	9.583	7.975	9.059	9.261	9.367	8.784	9.8

* 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.