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

Lab Name: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: P5291 SAS No.: P5291 SDG No.: P5291

Instrument ID: MSVOA_N Calibration Date(s): 12/18/2024 12/18/2024

Heated Purge: (Y/N) N Calibration Time(s): 11:56 13:57

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

LAB FILE ID: RRF100 = VN085245.D RRF050 = VN085246.D RRF020 = VN085247.D
RRF010 = VN085248.D RRF005 = VN085249.D RRF001 = VN085250.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.842	0.859	0.703	0.854	0.724	0.797	0.797	8.6
Chloromethane	0.697	0.751	0.693	0.784	0.675	0.956	0.759	13.8
Vinyl Chloride	0.698	0.732	0.669	0.731	0.670	0.769	0.711	5.6
Bromomethane	0.428	0.472	0.446	0.498	0.490		0.467	6.3
Chloroethane	0.430	0.458	0.430	0.459	0.435	0.867	0.513	33.8
Trichlorofluoromethane	1.101	1.221	1.077	1.232	1.181	1.081	1.149	6.2
1,1,2-Trichlorotrifluoroethane	0.628	0.621	0.581	0.650	0.603	0.614	0.616	3.8
1,1-Dichloroethene	0.587	0.595	0.550	0.588	0.578	0.526	0.571	4.8
Acetone	0.273	0.292	0.290	0.321	0.289	0.346	0.302	8.8
Carbon Disulfide	1.801	1.824	1.716	1.919	1.854	2.572	1.948	16.1
Methyl tert-butyl Ether	2.095	2.080	1.902	1.978	1.871	1.811	1.956	5.9
Methyl Acetate	0.784	0.831	0.820	0.881	0.860	0.949	0.854	6.7
Methylene Chloride	0.647	0.665	0.645	0.668	0.653	0.681	0.660	2.1
trans-1,2-Dichloroethene	0.622	0.615	0.587	0.598	0.633	0.721	0.629	7.6
1,1-Dichloroethane	1.225	1.237	1.202	1.271	1.200	1.193	1.221	2.4
Cyclohexane	1.105	1.107	1.039	1.178	1.223		1.131	6.3
2-Butanone	0.454	0.467	0.448	0.487	0.450	0.466	0.462	3.1
Carbon Tetrachloride	0.629	0.595	0.550	0.587	0.571	0.620	0.592	5
cis-1,2-Dichloroethene	0.749	0.745	0.680	0.757	0.679	0.786	0.733	5.9
Bromochloromethane	0.601	0.615	0.584	0.630	0.584	0.681	0.616	5.9
Chloroform	1.288	1.281	1.212	1.306	1.250	1.488	1.304	7.4
1,1,1-Trichloroethane	1.184	1.180	1.123	1.182	1.095	1.211	1.162	3.8
Methylcyclohexane	0.623	0.564	0.487	0.495	0.434	0.453	0.509	14
Benzene	1.652	1.576	1.493	1.530	1.472	1.413	1.523	5.5
1,2-Dichloroethane	0.620	0.592	0.548	0.614	0.567	0.539	0.580	5.9
Trichloroethene	0.367	0.343	0.325	0.338	0.327	0.334	0.339	4.4
1,2-Dichloropropane	0.406	0.392	0.355	0.373	0.370	0.365	0.377	5
Bromodichloromethane	0.631	0.602	0.569	0.582	0.543	0.533	0.577	6.3
4-Methyl-2-Pentanone	0.591	0.583	0.545	0.579	0.515	0.442	0.543	10.5
Toluene	1.041	0.985	0.867	0.907	0.841	0.852	0.916	8.8

* 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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COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.676	0.618	0.559	0.559	0.532	0.428	0.562	14.8
cis-1,3-Dichloropropene	0.692	0.647	0.575	0.613	0.554	0.504	0.598	11.3
1,1,2-Trichloroethane	0.375	0.352	0.340	0.350	0.328	0.312	0.343	6.3
2-Hexanone	0.434	0.426	0.406	0.418	0.353	0.283	0.387	15.1
Dibromochloromethane	0.459	0.435	0.397	0.410	0.387	0.350	0.406	9.4
1,2-Dibromoethane	0.384	0.369	0.336	0.371	0.338	0.320	0.353	7.1
Tetrachloroethene	0.352	0.341	0.319	0.348	0.341	0.319	0.336	4.3
Chlorobenzene	1.201	1.139	1.070	1.109	1.098	1.127	1.124	4
Ethyl Benzene	2.263	2.137	1.893	1.905	1.721	1.639	1.926	12.4
m/p-Xylenes	0.841	0.807	0.731	0.704	0.642	0.598	0.721	13
o-Xylene	0.816	0.761	0.673	0.703	0.578	0.533	0.677	15.9
Styrene	1.414	1.306	1.166	1.085	0.947	0.866	1.131	18.5
Bromoform	0.343	0.322	0.302	0.304	0.308	0.265	0.307	8.4
Isopropylbenzene	4.181	3.980	3.636	3.835	3.331	2.678	3.607	15
1,1,2,2-Tetrachloroethane	1.225	1.258	1.233	1.363	1.283	1.349	1.285	4.6
1,3-Dichlorobenzene	1.825	1.768	1.634	1.822	1.616	1.799	1.744	5.4
1,4-Dichlorobenzene	1.784	1.765	1.652	1.789	1.721	2.116	1.805	8.9
1,2-Dichlorobenzene	1.702	1.708	1.598	1.686	1.539	1.499	1.622	5.5
1,2-Dibromo-3-Chloropropane	0.254	0.267	0.247	0.289	0.251	0.171	0.246	16.3
1,2,4-Trichlorobenzene	0.892	0.860	0.755	0.785	0.719	0.970	0.830	11.3
1,2,3-Trichlorobenzene	0.848	0.840	0.754	0.827	0.753	0.954	0.829	8.9
1,2-Dichloroethane-d4	0.837	0.816	0.811	1.033	0.872		0.874	10.6
Dibromofluoromethane	0.358	0.339	0.331	0.397	0.332		0.352	7.9
Toluene-d8	1.386	1.284	1.190	1.395	1.169		1.285	8.3
4-Bromofluorobenzene	0.520	0.468	0.425	0.486	0.396		0.459	10.7

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