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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: LIRO01

Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG No.: P1747

Instrument ID: MSVOA_N Calibration Date(s): 03/05/2024 03/05/2024

Heated Purge: (Y/N) N Calibration Time(s): 12:00 13:59

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

LAB FILE ID: RRF100 = VN081304.D RRF050 = VN081305.D RRF020 = VN081306.D
RRF010 = VN081307.D RRF005 = VN081308.D RRF001 = VN081309.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.724	0.714	0.611	0.747	0.611	0.570	0.663	11.2
Chloromethane	0.645	0.666	0.673	0.718	0.709	0.885	0.716	12.2
Vinyl Chloride	0.705	0.695	0.724	0.754	0.732	0.871	0.747	8.6
Bromomethane	0.437	0.463	0.497	0.509	0.588		0.499	11.5
Chloroethane	0.474	0.458	0.486	0.470	0.582	0.609	0.513	12.7
Trichlorofluoromethane	1.078	1.055	1.108	1.121	1.119	1.150	1.105	3.1
1,1,2-Trichlorotrifluoroethane	0.600	0.578	0.625	0.635	0.637	0.700	0.629	6.6
1,1-Dichloroethene	0.566	0.551	0.578	0.574	0.600	0.627	0.583	4.6
Acetone	0.217	0.227	0.252	0.270	0.265	0.306	0.256	12.5
Carbon Disulfide	1.596	1.535	1.637	1.602	1.691	1.918	1.663	8.1
Methyl tert-butyl Ether	1.916	1.887	2.009	1.926	1.959	2.160	1.976	5
Methyl Acetate	0.734	0.722	0.677	0.797	0.710	0.761	0.733	5.7
Methylene Chloride	0.629	0.624	0.684	0.666	0.692	1.014	0.718	20.6
trans-1,2-Dichloroethene	0.606	0.601	0.646	0.635	0.665	0.789	0.657	10.5
1,1-Dichloroethane	1.121	1.104	1.194	1.167	1.193	1.276	1.176	5.2
Cyclohexane	1.024	0.995	1.094	1.095	1.265		1.095	9.6
2-Butanone	0.393	0.396	0.439	0.443	0.428	0.474	0.429	7.2
Carbon Tetrachloride	0.524	0.502	0.524	0.486	0.482	0.466	0.497	4.7
cis-1,2-Dichloroethene	0.698	0.678	0.736	0.719	0.794	0.844	0.745	8.4
Bromochloromethane	0.429	0.470	0.455	0.498	0.593	0.572	0.503	13.1
Chloroform	1.180	1.158	1.256	1.200	1.245	1.283	1.220	4
1,1,1-Trichloroethane	1.073	1.028	1.124	1.068	1.086	1.092	1.078	2.9
Methylcyclohexane	0.619	0.576	0.578	0.550	0.536	0.553	0.569	5.2
Benzene	1.465	1.428	1.503	1.465	1.488	1.502	1.475	1.9
1,2-Dichloroethane	0.519	0.509	0.542	0.508	0.518	0.525	0.520	2.4
Trichloroethene	0.375	0.367	0.389	0.353	0.343	0.406	0.372	6.2
1,2-Dichloropropane	0.367	0.359	0.389	0.364	0.386	0.359	0.371	3.6
Bromodichloromethane	0.536	0.503	0.530	0.497	0.484	0.493	0.507	4.1
4-Methyl-2-Pentanone	0.500	0.486	0.520	0.497	0.501	0.441	0.491	5.5
Toluene	0.934	0.894	0.939	0.871	0.886	0.823	0.891	4.8
t-1,3-Dichloropropene	0.605	0.557	0.565	0.525	0.514	0.527	0.549	6.2
cis-1,3-Dichloropropene	0.632	0.597	0.630	0.560	0.581	0.553	0.592	5.7
1,1,2-Trichloroethane	0.360	0.344	0.359	0.350	0.382	0.324	0.353	5.5

* 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	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
2-Hexanone	0.376	0.366	0.396	0.368	0.363	0.333	0.367	5.6
Dibromochloromethane	0.390	0.369	0.383	0.351	0.348	0.343	0.364	5.4
1,2-Dibromoethane	0.376	0.364	0.386	0.366	0.365	0.343	0.367	4
Tetrachloroethene	0.388	0.372	0.404	0.393	0.390	0.403	0.391	3
Chlorobenzene	1.043	1.018	1.116	1.032	1.043	1.069	1.054	3.3
Ethyl Benzene	2.004	1.913	1.973	1.802	1.847	1.849	1.898	4.2
m/p-Xylenes	0.753	0.717	0.756	0.691	0.674	0.695	0.714	4.8
o-Xylene	0.730	0.695	0.725	0.676	0.656	0.670	0.692	4.4
Styrene	1.224	1.162	1.196	1.065	1.014	0.921	1.097	10.7
Bromoform	0.283	0.272	0.271	0.245	0.254	0.281	0.268	5.7
Isopropylbenzene	3.976	4.130	4.244	4.101	3.899	3.876	4.037	3.6
1,1,2,2-Tetrachloroethane	1.118	1.163	1.261	1.294	1.212	1.428	1.246	8.8
1,3-Dichlorobenzene	1.693	1.703	1.772	1.767	1.783	2.128	1.808	8.9
1,4-Dichlorobenzene	1.699	1.705	1.824	1.764	1.779	2.070	1.807	7.6
1,2-Dichlorobenzene	1.633	1.638	1.736	1.750	1.762	1.886	1.734	5.4
1,2-Dibromo-3-Chloropropane	0.255	0.262	0.270	0.275	0.239	0.300	0.267	7.7
1,2,4-Trichlorobenzene	0.988	0.940	0.961	0.844	0.832	0.997	0.927	7.7
1,2,3-Trichlorobenzene	0.977	0.926	0.953	0.925	0.822	1.037	0.940	7.5
1,2-Dichloroethane-d4	0.721	0.746	0.734	0.715	0.699		0.723	2.5
Dibromofluoromethane	0.320	0.326	0.309	0.289	0.288		0.306	5.7
Toluene-d8	1.203	1.237	1.177	1.049	1.060		1.145	7.5
4-Bromofluorobenzene	0.449	0.438	0.410	0.368	0.359		0.405	9.9

* 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.