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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: loui01

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG No.: O1233

Instrument ID: MSVOA_N Calibration Date(s): 01/16/2023 01/16/2023

Heated Purge: (Y/N) N Calibration Time(s): 10:54 13:17

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

LAB FILE ID: RRF005 = VN076261.D RRF010 = VN076262.D RRF020 = VN076263.D
RRF050 = VN076264.D RRF075 = VN076265.D RRF001 = VN076267.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF075	RRF001	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.452	0.537	0.523	0.526	0.541	0.496	0.512	6.6
Chloromethane	0.503	0.544	0.523	0.522	0.522	0.569	0.531	4.3
Vinyl Chloride	0.658	0.653	0.644	0.644	0.657	0.647	0.650	1
Bromomethane	0.558	0.534	0.525	0.515	0.532		0.533	3
Chloroethane	0.475	0.484	0.471	0.457	0.487	0.553	0.488	6.9
Trichlorofluoromethane	0.887	0.887	0.880	0.875	0.898	0.942	0.895	2.7
1,1,2-Trichlorotrifluoroethane	0.511	0.531	0.502	0.498	0.511	0.487	0.507	3
1,1-Dichloroethene	0.470	0.479	0.459	0.477	0.486	0.503	0.479	3.1
Acetone	0.187	0.185	0.173	0.175	0.182	0.269	0.195	18.8
Carbon Disulfide	1.073	1.179	1.141	1.184	1.228	1.350	1.192	7.8
Methyl tert-butyl Ether	1.517	1.535	1.537	1.597	1.633	1.535	1.559	2.9
Methyl Acetate	0.618	0.606	0.574	0.588	0.599	0.664	0.608	5.1
Methylene Chloride	0.579	0.550	0.543	0.517	0.535	1.144	0.645	38.1
trans-1,2-Dichloroethene	0.520	0.501	0.500	0.506	0.513	0.573	0.519	5.4
1,1-Dichloroethane	0.910	0.897	0.854	0.868	0.893	0.842	0.877	3.1
Cyclohexane	1.007	0.875	0.833	0.787	0.798		0.860	10.4
2-Butanone	0.265	0.275	0.263	0.273	0.278	0.290	0.274	3.5
Carbon Tetrachloride	0.489	0.490	0.486	0.499	0.514	0.496	0.496	2
cis-1,2-Dichloroethene	0.615	0.591	0.597	0.599	0.614	0.614	0.605	1.7
Bromochloromethane	0.364	0.333	0.353	0.362	0.380	0.342	0.356	4.7
Chloroform	0.966	0.972	0.931	0.965	0.978	1.013	0.971	2.7
1,1,1-Trichloroethane	0.885	0.878	0.870	0.884	0.924	0.876	0.886	2.2
Methylcyclohexane	0.532	0.525	0.557	0.572	0.597	0.474	0.543	7.9
Benzene	1.325	1.322	1.316	1.333	1.358	1.320	1.329	1.1
1,2-Dichloroethane	0.458	0.448	0.441	0.450	0.460	0.471	0.455	2.4
Trichloroethene	0.398	0.372	0.354	0.361	0.370	0.399	0.376	5
1,2-Dichloropropane	0.326	0.315	0.314	0.315	0.325	0.315	0.318	1.8
Bromodichloromethane	0.450	0.459	0.456	0.474	0.486	0.471	0.466	2.8
4-Methyl-2-Pentanone	0.327	0.341	0.341	0.356	0.367	0.310	0.340	5.9
Toluene	0.891	0.894	0.870	0.885	0.909	0.883	0.889	1.5
t-1,3-Dichloropropene	0.409	0.426	0.442	0.489	0.514	0.386	0.444	10.9
cis-1,3-Dichloropropene	0.468	0.506	0.505	0.531	0.565	0.490	0.511	6.6
1,1,2-Trichloroethane	0.340	0.336	0.330	0.331	0.350	0.350	0.340	2.6

* 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.

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: loui01

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG No.: O1233

Instrument ID: MSVOA_N Calibration Date(s): 01/16/2023 01/16/2023

Heated Purge: (Y/N) N Calibration Time(s): 10:54 13:17

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

LAB FILE ID: RRF005 = VN076261.D RRF010 = VN076262.D RRF020 = VN076263.D
RRF050 = VN076264.D RRF075 = VN076265.D RRF001 = VN076267.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF075	RRF001	$\overline{RRF}$	% RSD
2-Hexanone	0.232	0.242	0.249	0.261	0.269	0.228	0.247	6.5
Dibromochloromethane	0.342	0.354	0.358	0.382	0.400	0.310	0.358	8.8
1,2-Dibromoethane	0.334	0.340	0.335	0.350	0.361	0.314	0.339	4.7
Tetrachloroethene	0.501	0.460	0.422	0.393	0.388	0.541	0.451	13.6
Chlorobenzene	1.040	1.054	1.017	1.034	1.051	1.146	1.057	4.3
Ethyl Benzene	1.707	1.820	1.814	1.880	1.921	1.711	1.809	4.8
m/p-Xylenes	0.678	0.727	0.721	0.745	0.771	0.710	0.725	4.4
o-Xylene	0.670	0.706	0.710	0.739	0.751	0.699	0.712	4.1
Styrene	1.037	1.097	1.137	1.206	1.250	1.096	1.137	6.9
Bromoform	0.252	0.270	0.282	0.304	0.323	0.273	0.284	9
Isopropylbenzene	3.802	4.040	3.943	3.806	3.824	3.793	3.868	2.6
1,1,2,2-Tetrachloroethane	1.108	1.079	1.071	1.057	1.047	1.309	1.112	8.9
1,3-Dichlorobenzene	1.692	1.760	1.675	1.724	1.759	2.328	1.823	13.7
1,4-Dichlorobenzene	1.740	1.728	1.692	1.701	1.752	2.439	1.842	15.9
1,2-Dichlorobenzene	1.766	1.760	1.703	1.716	1.725	2.224	1.816	11.1
1,2-Dibromo-3-Chloropropane	0.182	0.180	0.187	0.207	0.201	0.204	0.193	6.2
1,2,4-Trichlorobenzene	0.652	0.757	0.760	0.875	0.892	1.282	0.870	25.3
1,2,3-Trichlorobenzene	0.648	0.758	0.730	0.832	0.850	1.121	0.823	19.8
1,2-Dichloroethane-d4	0.584	0.526	0.549	0.554	0.586		0.560	4.5
Dibromofluoromethane	0.331	0.295	0.312	0.306	0.321		0.313	4.4
Toluene-d8	1.176	1.062	1.151	1.165	1.222		1.155	5.1
4-Bromofluorobenzene	0.356	0.334	0.371	0.393	0.431		0.377	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.