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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: RMJE02

Lab Code: CHEM Case No.: O5252 SAS No.: O5252 SDG No.: O5252

Instrument ID: MSVOA_Y Calibration Date(s): 10/31/2023 10/31/2023

Heated Purge: (Y/N) Y Calibration Time(s): 12:26 14:40

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

LAB FILE ID: RRF005 = VY016142.D RRF010 = VY016143.D RRF020 = VY016144.D
RRF050 = VY016145.D RRF100 = VY016146.D RRF150 = VY016147.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.280	0.326	0.304	0.335	0.346	0.322	0.319	7.5
Chloromethane	0.424	0.471	0.443	0.435	0.451	0.425	0.442	4
Vinyl Chloride	0.402	0.465	0.440	0.469	0.495	0.464	0.456	6.9
Bromomethane	0.282	0.307	0.299	0.302	0.333	0.323	0.308	6
Chloroethane	0.277	0.333	0.322	0.318	0.346	0.328	0.321	7.3
Trichlorofluoromethane	0.619	0.704	0.671	0.702	0.735	0.697	0.688	5.8
1,1,2-Trichlorotrifluoroethane	0.411	0.435	0.430	0.438	0.456	0.431	0.433	3.4
1,1-Dichloroethene	0.371	0.409	0.392	0.390	0.419	0.394	0.396	4.2
Acetone	0.118	0.102	0.084	0.069	0.077	0.069	0.086	22.6
Carbon Disulfide	0.858	0.981	0.958	1.015	1.088	1.026	0.988	7.8
Methyl tert-butyl Ether	0.969	1.171	1.139	1.071	1.240	1.162	1.125	8.4
Methyl Acetate	0.355	0.392	0.383	0.344	0.404	0.380	0.376	6
Methylene Chloride	0.683	0.611	0.511	0.459	0.485	0.448	0.533	17.6
trans-1,2-Dichloroethene	0.421	0.460	0.466	0.457	0.492	0.469	0.461	5
1,1-Dichloroethane	0.721	0.856	0.827	0.794	0.884	0.834	0.819	6.9
Cyclohexane	0.782	0.765	0.681	0.690	0.716	0.682	0.719	6.1
2-Butanone	0.138	0.142	0.128	0.113	0.132	0.122	0.129	8.1
Carbon Tetrachloride	0.343	0.420	0.418	0.443	0.478	0.458	0.426	11
cis-1,2-Dichloroethene	0.485	0.558	0.544	0.529	0.583	0.555	0.542	6.2
Bromochloromethane	0.313	0.316	0.297	0.303	0.311	0.299	0.307	2.6
Chloroform	0.792	0.938	0.908	0.871	0.946	0.896	0.892	6.3
1,1,1-Trichloroethane	0.731	0.849	0.823	0.812	0.869	0.824	0.818	5.8
Methylcyclohexane	0.466	0.503	0.500	0.539	0.556	0.519	0.514	6.2
Benzene	1.152	1.297	1.226	1.210	1.309	1.221	1.236	4.7
1,2-Dichloroethane	0.316	0.367	0.348	0.332	0.364	0.342	0.345	5.6
Trichloroethene	0.330	0.382	0.360	0.360	0.383	0.356	0.362	5.4
1,2-Dichloropropane	0.254	0.313	0.297	0.296	0.323	0.301	0.297	7.9
Bromodichloromethane	0.378	0.439	0.433	0.419	0.466	0.436	0.428	6.8
4-Methyl-2-Pentanone	0.167	0.200	0.191	0.180	0.207	0.190	0.189	7.5
Toluene	0.727	0.816	0.800	0.799	0.860	0.802	0.801	5.4
t-1,3-Dichloropropene	0.378	0.435	0.424	0.413	0.470	0.447	0.428	7.3
cis-1,3-Dichloropropene	0.443	0.520	0.503	0.486	0.546	0.514	0.502	7.1
1,1,2-Trichloroethane	0.213	0.257	0.236	0.228	0.254	0.236	0.237	7

* 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
2-Hexanone	0.115	0.139	0.130	0.123	0.142	0.129	0.130	7.8
Dibromochloromethane	0.261	0.313	0.298	0.288	0.322	0.303	0.298	7.2
1,2-Dibromoethane	0.203	0.237	0.228	0.217	0.242	0.227	0.226	6.2
Tetrachloroethene	0.431	0.472	0.446	0.445	0.458	0.416	0.445	4.5
Chlorobenzene	0.903	1.021	0.994	0.984	1.061	0.996	0.993	5.3
Ethyl Benzene	1.531	1.794	1.784	1.801	1.937	1.813	1.777	7.5
m/p-Xylenes	0.592	0.690	0.691	0.698	0.748	0.700	0.687	7.4
o-Xylene	0.580	0.657	0.649	0.655	0.716	0.676	0.656	6.8
Styrene	0.944	1.088	1.093	1.091	1.193	1.129	1.090	7.5
Bromoform	0.180	0.212	0.201	0.195	0.226	0.211	0.204	7.7
Isopropylbenzene	3.270	3.831	3.777	3.766	4.045	3.815	3.751	6.8
1,1,2,2-Tetrachloroethane	0.530	0.642	0.599	0.549	0.645	0.617	0.597	8
1,3-Dichlorobenzene	1.552	1.758	1.677	1.645	1.789	1.656	1.680	5.1
1,4-Dichlorobenzene	1.597	1.746	1.675	1.588	1.747	1.608	1.660	4.4
1,2-Dichlorobenzene	1.354	1.532	1.454	1.403	1.544	1.420	1.451	5.1
1,2-Dibromo-3-Chloropropane	0.114	0.115	0.103	0.099	0.108	0.101	0.107	6.5
1,2,4-Trichlorobenzene	0.907	0.961	0.910	0.883	0.907	0.807	0.896	5.7
1,2,3-Trichlorobenzene	0.796	0.819	0.785	0.737	0.775	0.679	0.765	6.6
1,2-Dichloroethane-d4	0.466	0.460	0.471	0.439	0.505	0.466	0.468	4.6
Dibromofluoromethane	0.295	0.288	0.303	0.283	0.320	0.300	0.298	4.4
Toluene-d8	1.142	1.123	1.164	1.155	1.301	1.205	1.182	5.5
4-Bromofluorobenzene	0.423	0.395	0.401	0.372	0.434	0.401	0.404	5.4

* Compounds with required minimum RRF and maximum %RSD values.
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RRF of 1,4-Dioxane = Value should be divide by 1000.