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.: P5362 SAS No.: P5362 SDG No.: P5362

Instrument ID: MSVOA_Y Calibration Date(s): 12/26/2024 12/26/2024

Heated Purge: (Y/N) Y Calibration Time(s): 09:31 11:51

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

LAB FILE ID: RRF005 = VY020706.D RRF010 = VY020707.D RRF020 = VY020708.D
RRF050 = VY020709.D RRF150 = VY020710.D RRF100 = VY020711.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF150	RRF100	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.368	0.453	0.375	0.405	0.376	0.385	0.394	8
Chloromethane	0.136	0.154	0.131	0.157	0.148	0.155	0.147	7.5
Vinyl Chloride	0.168	0.195	0.176	0.192	0.178	0.181	0.182	5.6
Bromomethane	0.131	0.149	0.128	0.141	0.136	0.138	0.137	5.5
Chloroethane	0.101	0.116	0.102	0.113	0.112	0.111	0.109	5.6
Trichlorofluoromethane	0.651	0.767	0.686	0.715	0.689	0.689	0.699	5.5
1,1,2-Trichlorotrifluoroethane	0.346	0.428	0.378	0.391	0.376	0.385	0.384	6.9
1,1-Dichloroethene	0.326	0.359	0.330	0.352	0.340	0.344	0.342	3.7
Acetone	0.050	0.068	0.045	0.054	0.048	0.046	0.052	16.8
Carbon Disulfide	0.745	0.854	0.769	0.906	0.867	0.889	0.838	7.9
Methyl tert-butyl Ether	0.880	1.004	0.922	1.015	0.942	0.951	0.952	5.3
Methyl Acetate	0.115	0.155	0.132	0.159	0.144	0.140	0.141	11.4
Methylene Chloride	0.324	0.365	0.328	0.343	0.329	0.338	0.338	4.5
trans-1,2-Dichloroethene	0.339	0.378	0.356	0.391	0.368	0.378	0.368	5
1,1-Dichloroethane	0.571	0.661	0.596	0.620	0.591	0.620	0.609	5.1
Cyclohexane	0.629	0.582	0.493	0.510	0.463	0.479	0.526	12.4
2-Butanone	0.069	0.069	0.066	0.080	0.071	0.067	0.070	7
Carbon Tetrachloride	0.556	0.644	0.581	0.614	0.593	0.606	0.599	5
cis-1,2-Dichloroethene	0.419	0.460	0.426	0.462	0.432	0.447	0.441	4.1
Bromochloromethane	0.133	0.151	0.129	0.193	0.178	0.184	0.161	16.9
Chloroform	0.839	0.821	0.753	0.788	0.742	0.762	0.784	5
1,1,1-Trichloroethane	0.814	0.897	0.826	0.859	0.816	0.831	0.840	3.8
Methylcyclohexane	0.427	0.483	0.462	0.485	0.468	0.474	0.466	4.5
Benzene	0.969	1.104	1.040	1.089	1.041	1.083	1.054	4.7
1,2-Dichloroethane	0.297	0.352	0.325	0.364	0.342	0.348	0.338	7
Trichloroethene	0.288	0.336	0.315	0.324	0.309	0.317	0.315	5.1
1,2-Dichloropropane	0.205	0.230	0.205	0.225	0.204	0.211	0.213	5.3
Bromodichloromethane	0.384	0.444	0.415	0.433	0.416	0.421	0.419	4.9
4-Methyl-2-Pentanone	0.111	0.123	0.117	0.140	0.126	0.121	0.123	7.8
Toluene	0.654	0.751	0.722	0.745	0.723	0.741	0.723	4.9

* 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.

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COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF150	RRF100	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.318	0.366	0.352	0.403	0.382	0.386	0.368	8.2
cis-1,3-Dichloropropene	0.361	0.408	0.395	0.430	0.410	0.413	0.403	5.8
1,1,2-Trichloroethane	0.182	0.187	0.186	0.199	0.189	0.188	0.188	3.1
2-Hexanone	0.066	0.077	0.078	0.096	0.087	0.083	0.081	12.4
Dibromochloromethane	0.276	0.321	0.294	0.316	0.309	0.312	0.305	5.5
1,2-Dibromoethane	0.158	0.179	0.175	0.191	0.184	0.178	0.177	6.1
Tetrachloroethene	0.308	0.360	0.348	0.351	0.337	0.346	0.342	5.3
Chlorobenzene	0.925	1.044	0.976	1.002	0.943	0.985	0.979	4.3
Ethyl Benzene	1.540	1.810	1.715	1.778	1.682	1.743	1.711	5.6
m/p-Xylenes	0.590	0.691	0.649	0.675	0.643	0.667	0.653	5.4
o-Xylene	0.552	0.666	0.639	0.650	0.603	0.632	0.624	6.6
Styrene	0.958	1.076	1.061	1.090	1.022	1.075	1.047	4.7
Bromoform	0.188	0.227	0.212	0.241	0.218	0.222	0.218	8.2
Isopropylbenzene	3.123	3.801	3.508	3.476	3.402	3.474	3.464	6.3
1,1,2,2-Tetrachloroethane	0.430	0.438	0.438	0.476	0.451	0.431	0.444	3.9
1,3-Dichlorobenzene	1.428	1.670	1.567	1.578	1.529	1.579	1.559	5.1
1,4-Dichlorobenzene	1.492	1.625	1.562	1.572	1.502	1.549	1.550	3.1
1,2-Dichlorobenzene	1.197	1.374	1.362	1.410	1.328	1.347	1.336	5.5
1,2-Dibromo-3-Chloropropane	0.068	0.089	0.086	0.098	0.090	0.086	0.086	11.8
1,2,4-Trichlorobenzene	0.666	0.826	0.811	0.902	0.947	0.944	0.849	12.6
1,2,3-Trichlorobenzene	0.531	0.678	0.678	0.773	0.796	0.787	0.707	14.3
1,2-Dichloroethane-d4	0.335	0.402	0.313	0.516	0.433	0.457	0.410	18.7
Dibromofluoromethane	0.235	0.274	0.232	0.319	0.284	0.307	0.275	13.1
Toluene-d8	0.733	0.883	0.733	1.227	1.093	1.158	0.971	22.4
4-Bromofluorobenzene	0.303	0.378	0.319	0.426	0.373	0.397	0.366	12.8

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