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

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG No.: P3457

Instrument ID: MSVOA_X Calibration Date(s): 08/06/2024 08/06/2024

Heated Purge: (Y/N) N Calibration Time(s): 18:18 20:15

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX042877.D RRF005 = VX042878.D RRF020 = VX042879.D
RRF050 = VX042880.D RRF100 = VX042881.D RRF150 = VX042882.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.521	0.492	0.550	0.552	0.571	0.547	0.539	5.2
Chloromethane	0.675	0.573	0.601	0.551	0.574	0.549	0.587	8
Vinyl Chloride	0.523	0.562	0.582	0.551	0.567	0.557	0.557	3.5
Bromomethane		0.351	0.323	0.316	0.350	0.346	0.337	4.8
1,1,2-Trichlorotrifluoroethane	0.571	0.527	0.578	0.533	0.535	0.525	0.545	4.3
Acetone	0.353	0.284	0.316	0.282	0.279	0.272	0.298	10.5
Carbon Disulfide	1.453	1.225	1.325	1.297	1.381	1.366	1.341	5.8
Methyl tert-butyl Ether	1.847	1.847	1.921	1.834	1.855	1.825	1.855	1.9
Methylene Chloride	1.053	0.702	0.677	0.596	0.609	0.593	0.705	25
trans-1,2-Dichloroethene	0.549	0.547	0.576	0.552	0.557	0.545	0.554	2.1
Cyclohexane		0.817	0.896	0.858	0.869	0.855	0.859	3.3
2-Butanone	0.449	0.462	0.510	0.469	0.466	0.449	0.468	4.8
Carbon Tetrachloride	0.532	0.465	0.500	0.492	0.505	0.508	0.500	4.4
cis-1,2-Dichloroethene	0.585	0.666	0.708	0.663	0.668	0.655	0.658	6.1
Chloroform	1.114	1.083	1.166	1.091	1.092	1.062	1.101	3.2
1,1,1-Trichloroethane	0.918	0.937	1.012	0.971	0.995	0.984	0.970	3.7
Methylcyclohexane	0.459	0.496	0.555	0.549	0.556	0.546	0.527	7.6
Benzene	1.318	1.391	1.456	1.384	1.361	1.344	1.376	3.5
1,2-Dichloroethane	0.500	0.505	0.524	0.497	0.492	0.484	0.500	2.7
Trichloroethene	0.348	0.347	0.359	0.338	0.342	0.340	0.346	2.2
Bromodichloromethane	0.422	0.455	0.504	0.487	0.497	0.492	0.476	6.6
Toluene	0.732	0.836	0.915	0.849	0.851	0.824	0.834	7.1
1,1,2-Trichloroethane	0.312	0.339	0.364	0.336	0.346	0.338	0.339	5
Dibromochloromethane	0.332	0.341	0.391	0.372	0.401	0.399	0.373	8
Tetrachloroethene	0.354	0.335	0.368	0.348	0.343	0.337	0.348	3.5
Chlorobenzene	1.081	1.042	1.112	1.039	1.052	1.040	1.061	2.8
Ethyl Benzene	1.660	1.668	1.921	1.806	1.830	1.823	1.785	5.7
m/p-Xylenes	0.601	0.637	0.754	0.696	0.701	0.698	0.681	7.9
o-Xylene	0.662	0.639	0.727	0.687	0.694	0.686	0.683	4.3
Isopropylbenzene	3.448	3.709	3.932	3.673	3.523	3.404	3.615	5.4

* 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	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
1,4-Dichlorobenzene	1.850	1.728	1.769	1.635	1.622	1.630	1.706	5.4
1,2-Dichlorobenzene	1.598	1.714	1.775	1.657	1.637	1.619	1.666	4
1,2-Dichloroethane-d4		0.726	0.669	0.667	0.687	0.683	0.686	3.5
Dibromofluoromethane		0.333	0.315	0.323	0.336	0.329	0.327	2.6
Toluene-d8		1.195	1.151	1.136	1.170	1.151	1.161	2
4-Bromofluorobenzene		0.404	0.401	0.398	0.441	0.441	0.417	5.3

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