

Supporting Information

Pre-oxidation for Colorimetric Sensor Array Detection of VOCs

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Experimental Section

All reagents, including the 20 VOCs, were analytical-reagent grade, obtained from Sigma-Aldrich, and used without further purification unless otherwise specified. The silica used was Davisil 636, 250-500 µm, pore size 6.0 nm, 480 m²/g.

The preparation of colorimetric sensor array, including the dyes used in the arrays, had been reported in our earlier paper.¹ For these studies comparing the effects of pre-oxidation, we specifically have used the array developed in reference 1 and not that of later publications (reference 2). The array used in this study (and reference 1) is more sensitive to detection of acids than the array used in reference 2, and hence better suited to the partial oxidation products created during the pre-oxidation process.

Procedure for preparation of chromic acid loaded on silica:
The chromic acid on silica was made by mixing silica gel (10.0 g), Na₂Cr₂O₇ (4.0 g), 98% H₂SO₄ (2.5 mL), and H₂O (10.0 mL). CAUTION: exothermic reaction upon mixing! Water was removed under vacuum at 60 °C for an hour. The resulting gel was further dried by flowing dry nitrogen overnight.

For liquids, the VOC vapor streams were produced by bubbling dry nitrogen through their corresponding pure compound. The vapors of solid VOCs were generated from flowing dry nitrogen through the corresponding compound that filled in glass tube (~20 cm long). The resulting vapor stream was then mixed with a diluting stream of nitrogen gas and nitrogen bubbled through water to keep the stream at 50% relative humidity (RH). Importantly, VOC vapor concentrations were confirmed by in-line analysis using an FT-IR multi-gas analyzer, MKS Instruments model 2030.

MKS digital mass flow controllers were used to adjust the wet/dry N₂ flow rate to achieve the desired concentrations at 50%

RH. The response of the colorimetric sensor arrays is essentially an equilibrium response and is therefore not generally dependent (after equilibration) on flow rate or dose.^{1,2} Slower flow rates of course require longer equilibration times. For all data used in these studies, the flow rate was 500 sccm and fully equilibrated responses were taken after 5 minutes of exposure to the VOC flow.

For all sensing experiments, the arrays were imaged on an ordinary flatbed scanner (Epson Perfection V200); the before-exposure image was acquired after 2 min of 50% RH N₂ at a flow rate of 500 sccm, and after-exposure images were acquired with full equilibration after five minutes of exposure to the pre-determined VOC vapor concentrations at 500 sccm. Difference maps were obtained by taking the difference of the red, green, and blue (RGB) values from the center of every colorant spot (~300 pixels) from the “before” and “after” images; all difference maps shown here are averages of multiple trials. Digitization of the color differences can be performed using Adobe PhotoshopTM or with a customized software package, ChemEyeTM (ChemSensing, Inc., Champaign, IL). The chemometric analysis was carried out on the color difference vectors using the Multi-Variate Statistical PackageTM (MVSP v.3.1, Kovach Computing); in all cases, minimum variance (i.e., “Ward’s Method”) was used for HCA clustering.

- (1) Lim, S. H.; Feng, L.; Kemling, J. W.; Musto, C. J.; Suslick, K. S. *Nature Chem.* **2009**, *1*, 562-567.
- (2) (a) Feng, L.; Musto, C. J.; Kemling, J. W., Lim, S. H.; Suslick, K. S. *Chem. Commun.* **2010**, *46*, 2037-2039. (b) Feng, L.; Musto, C. J.; Kemling, J. W., Lim, S. H.; Zhong, W.; Suslick, K. S. *Anal. Chem.* **2010**, *82*, 9433-9440.

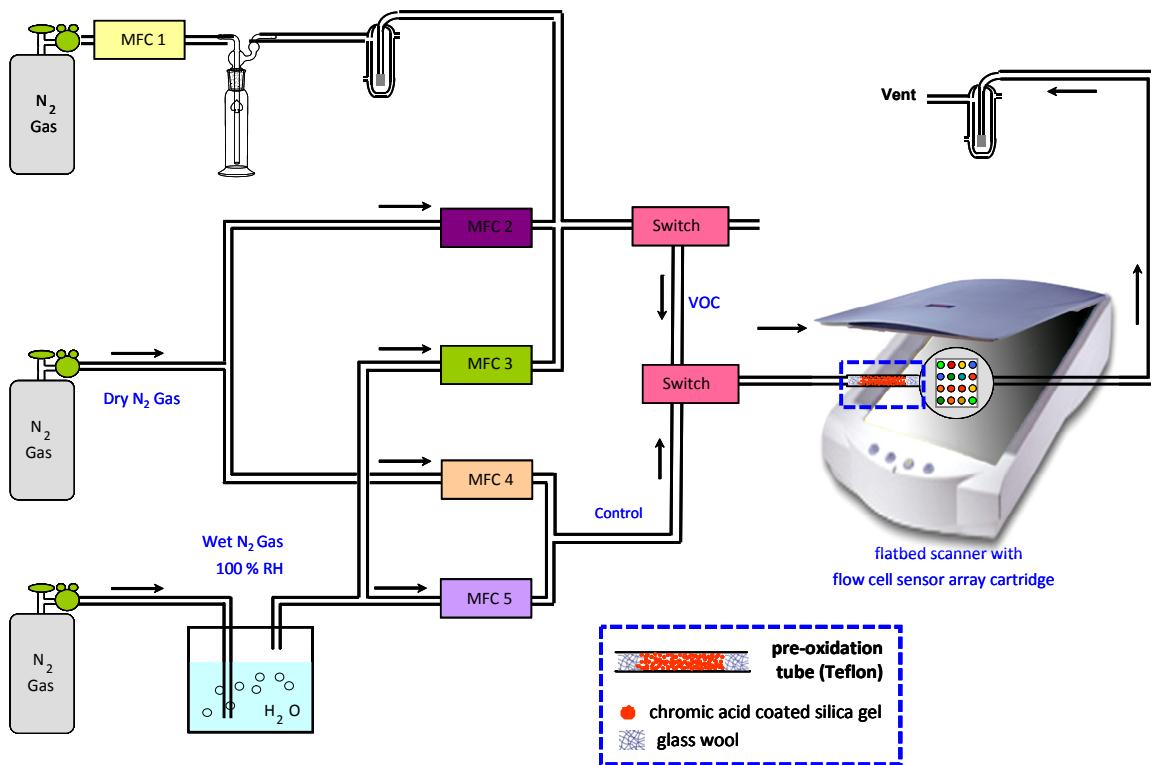


Figure S1. Experimental setup for exposure of colorimetric sensor arrays with pre-oxidation. The experiments of direct responses to VOCs were carried out similarly but without the pre-oxidation tube. The box labeled “switch” is actually a series of three three-way valves, which allows for venting and also diversion of the analyte stream to the MKS multi-gas analyzer. MFC = mass flow controller.

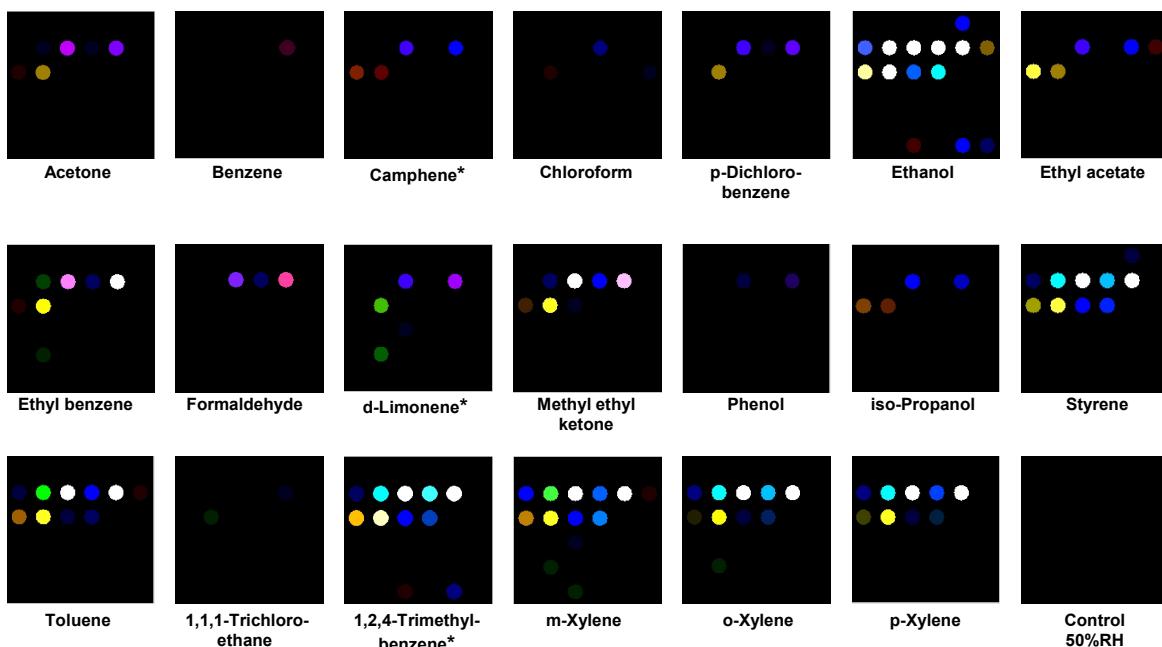


Figure S2. Color change profiles of the 20 representative volatile organic compounds (VOCs) at their Permissible Exposure Limit (PEL) concentrations using pre-oxidation and a control; 5 min exposure at 50% relative humidity and 298K. PEL concentrations are given in Table 1. For purposes of visualization, the color range of these difference maps is expanded from 3 to 8 bits per color (RGB range of 3-10 expanded to 0-255). All experiments were run in quintuplicate with 30 mg chromic acid loaded silica gel as pre-oxidation reagent.

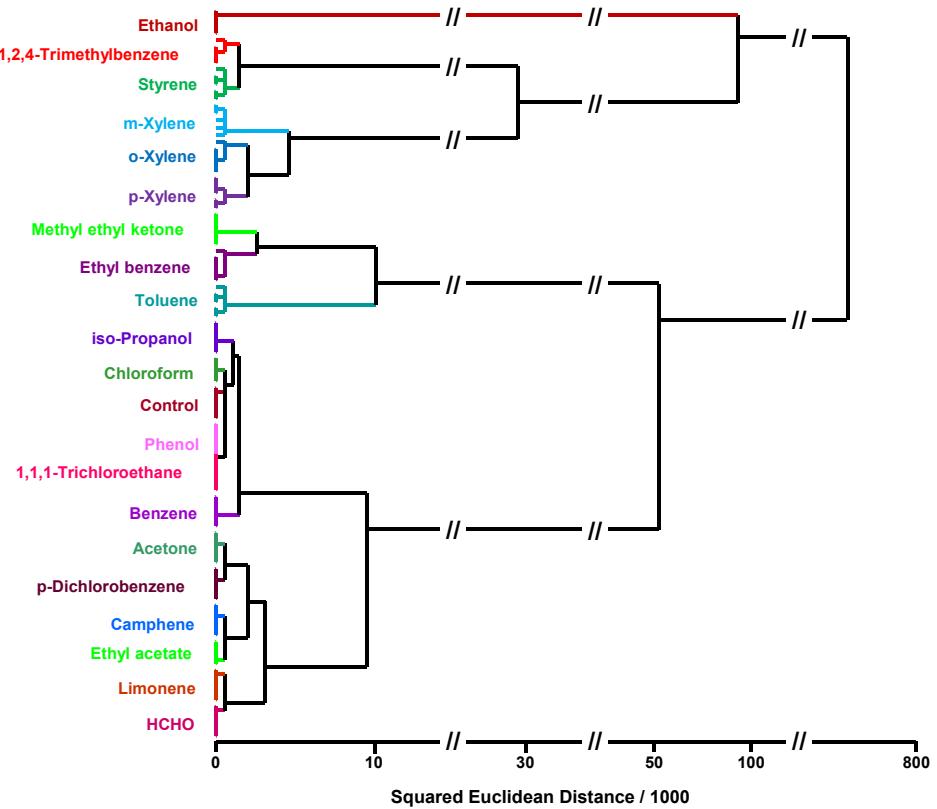


Figure S3. Hierarchical cluster analysis for 20 commonly found VOCs at their PEL and a control. All experiments were run in quintuplicate with 30 mg chromic acid loaded silica gel as pre-oxidation reagent; no confusions or errors in classification were observed in 105 trials.

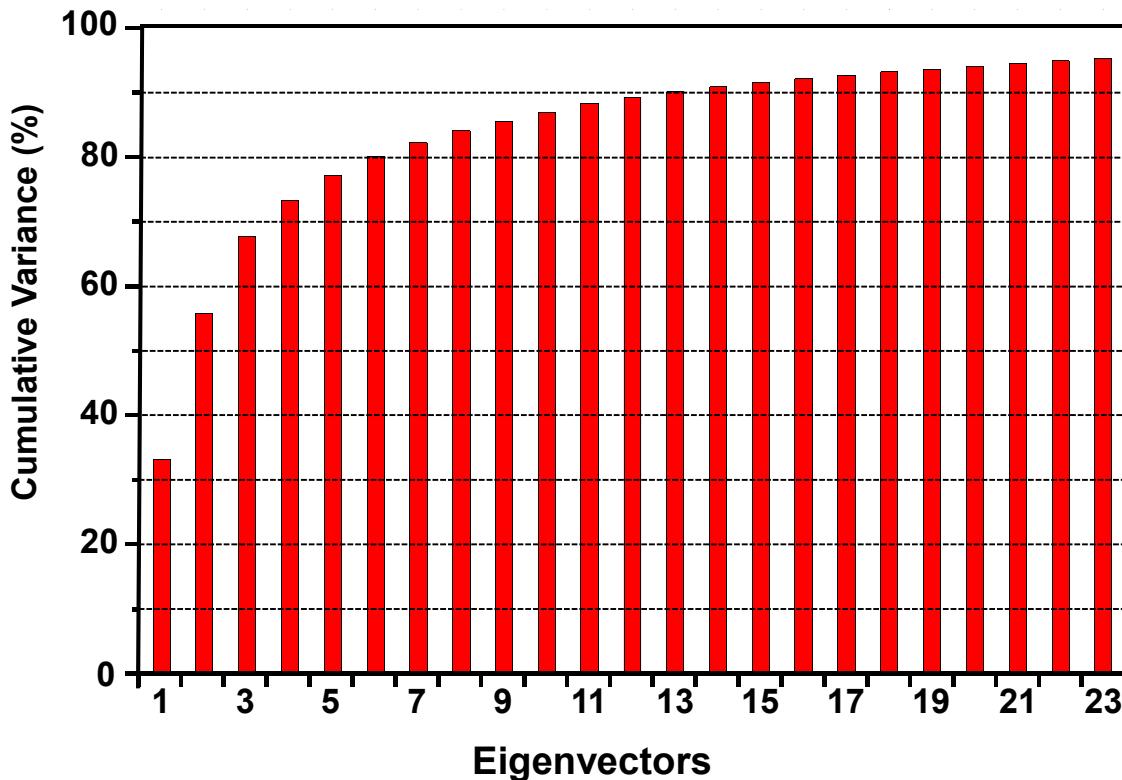
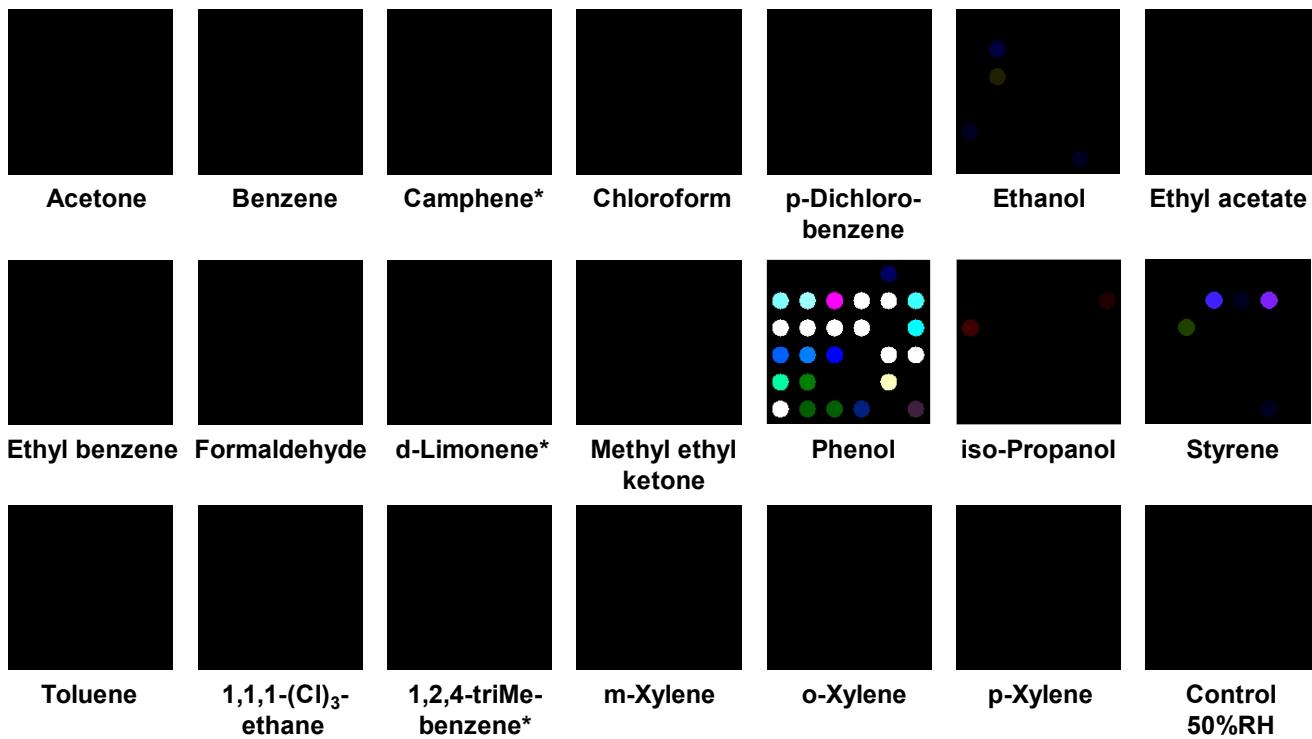


Figure S4. Scree plot of the principal components from PCA of 105 trials using 20 VOCs at their IDLH and a control. The colorimetric sensor array has an extraordinary high level of dispersion: 13 dimensions are required to capture 90% of the total variance, 23 dimensions for 95%.

without Pre-Oxidation Tube



with Pre-Oxidation Tube

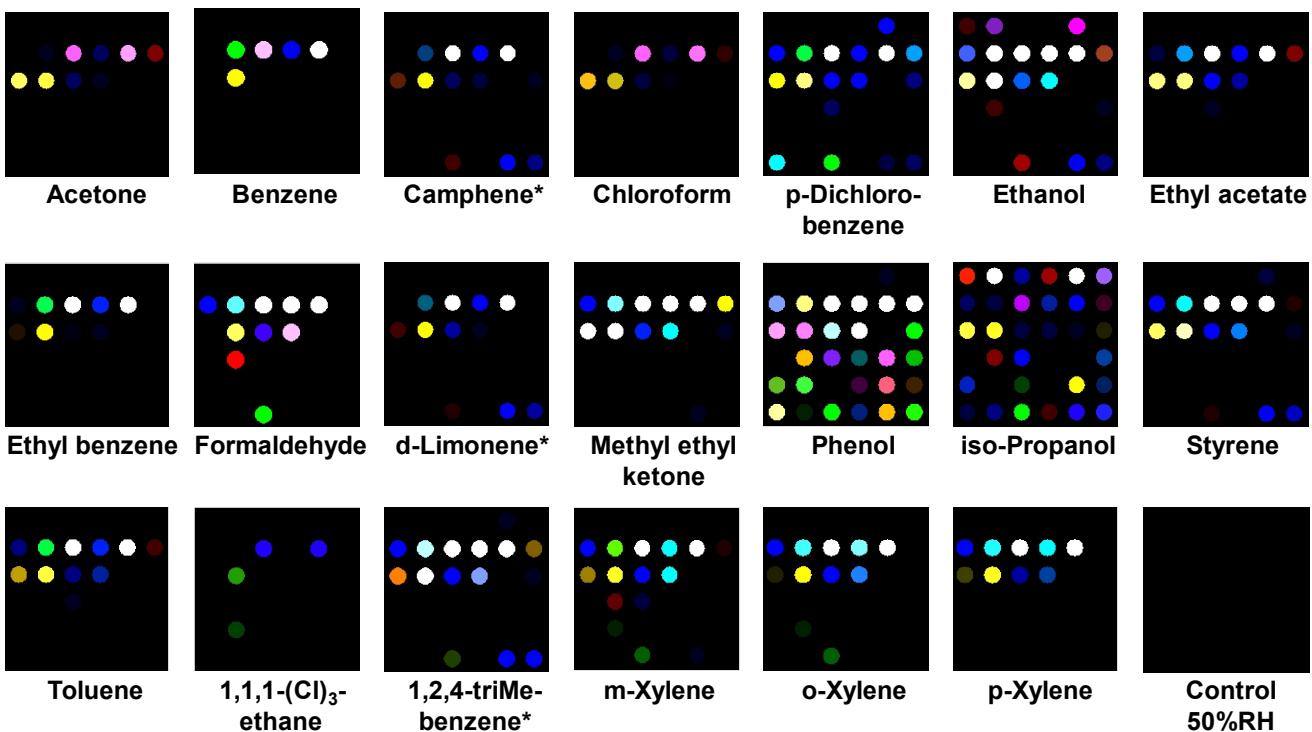


Figure S5. The direct responses of color change profiles of the 20 representative volatile organic compounds (VOCs) at their IDLH concentration *without pre-oxidation* compared to the color change profiles *with pre-oxidation*; 5 min exposure at 50% relative humidity and 298K. For purposes of visualization, the color range of these difference maps is expanded from 3 to 8 bits per color (RGB range of 3-10 expanded to 0-255). All experiments were run in quintuplicate.

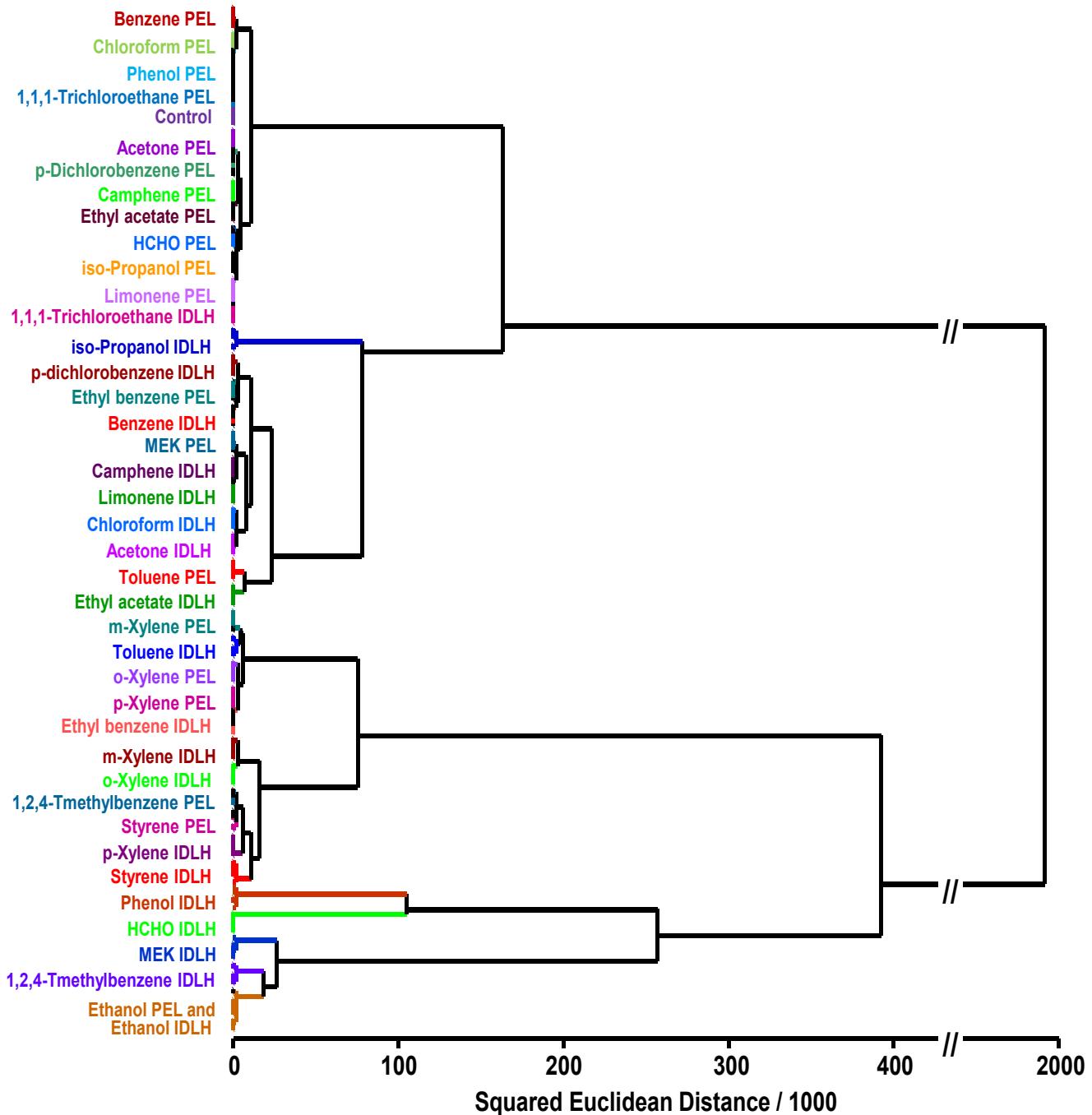


Figure S6. Hierarchical cluster analysis for 20 commonly found VOCs at their IDLH and PEL. All experiments were run in quintuplicate with 30 mg chromic acid loaded silica gel as pre-oxidation reagent; no confusions or errors in classification were observed in 205 trials, with the exception of ethanol, where the extremely high concentrations required for the IDLH and PEL of ethanol saturate the array response.

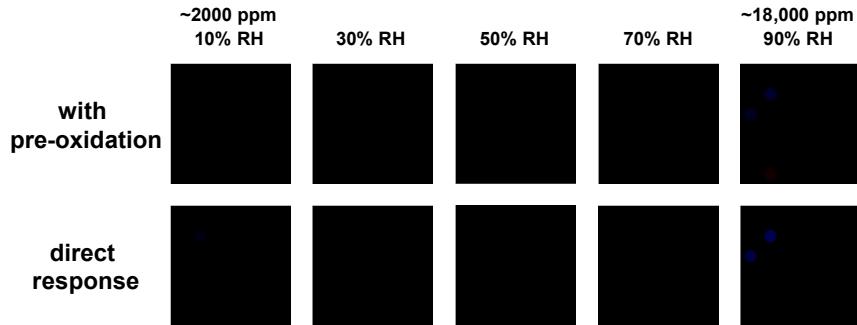


Figure S7. The colorimetric sensor array is unaffected by changes in humidity, either with or without VOC pre-oxidation (with 30 mg chromic acid loaded silica gel as pre-oxidation reagent). There is essentially no response to variations in relative humidity (RH) from 10% to 90%. For purposes of visualization, the color range of these difference maps is expanded from 3 to 8 bits per color (RGB range of 3-10 expanded to 0-255).

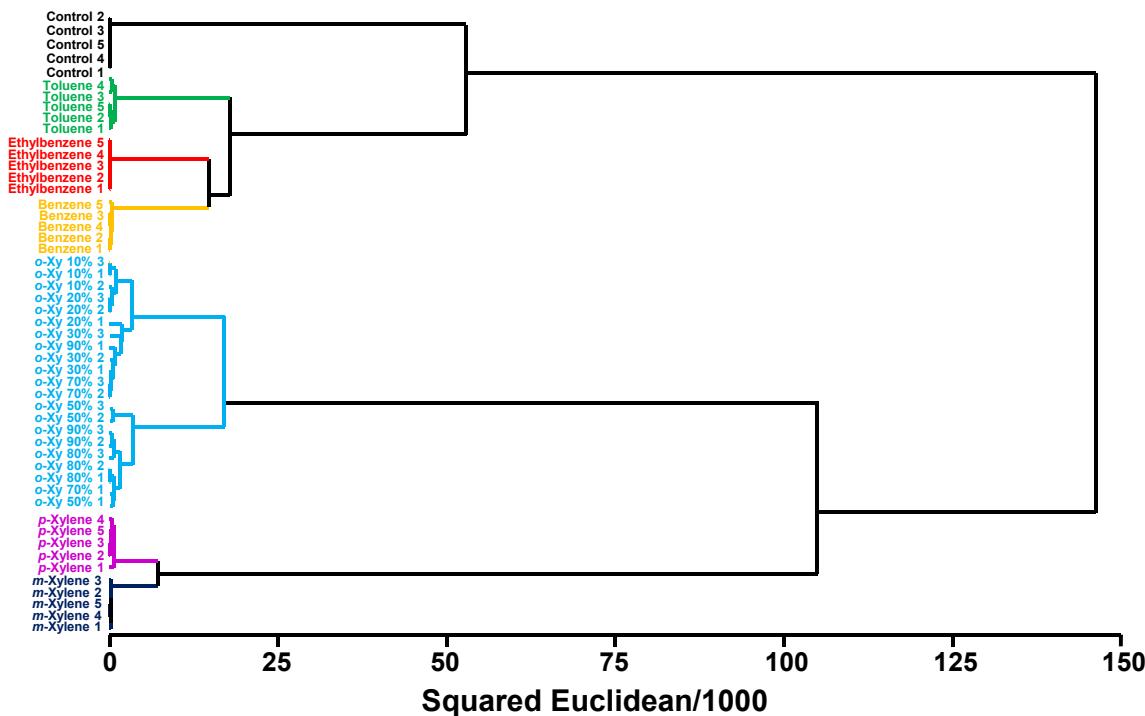


Figure S8. Hierarchical cluster analysis for *o*-xylene at different relative humidities (10% through 90% RH, all at room temperature) compared to other closely related aromatic hydrocarbons (i.e., BTEX components) all at their IDLH concentrations. As shown, changes in relative humidity do not lead to confusion between *o*-xylene and even *m*- or *p*-xylenes.

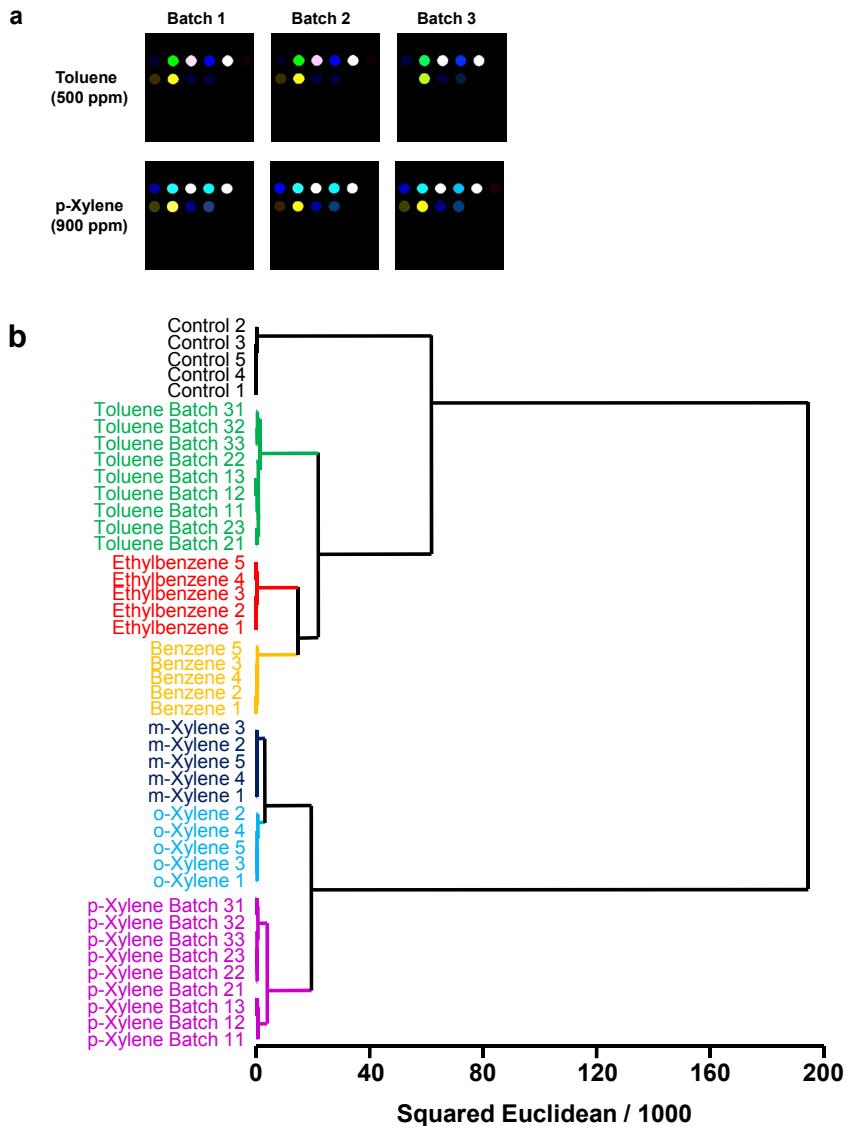


Figure S9. Reproducibility of chromic acid on silica as a pre-oxidation reagent for VOCs detection. (a) Digital color difference maps of toluene and *p*-xylene (after 5 min exposure) at their IDLH with three separately preparing batches of chromic acid on silica. For display purposes, the color range of these difference maps is expanded from 3 to 8 bits per color (RGB range of 3-10 expanded to 0-255). (b) Hierarchical cluster analysis for the responses of toluene and *p*-xylene with three separately preparing batches of chromic acid on silica as pre-oxidation reagent; each batch of chromic acid was tested in triplicate using *p*-xylene, compared with the array responses in quintuplicate to benzene, ethylbenzene, *o*-xylene, and *m*-xylene (all at their IDLH) and a control of N₂.

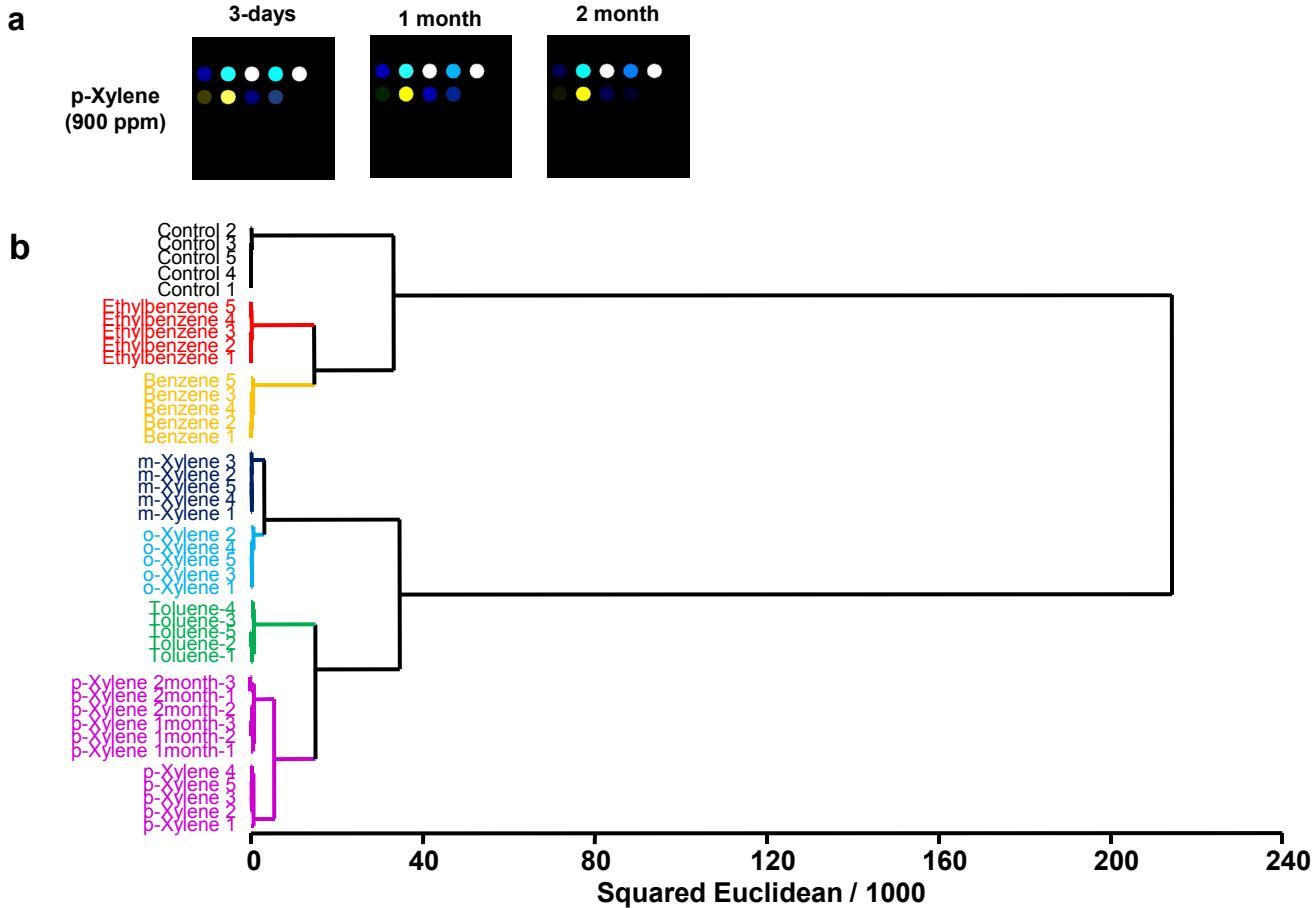


Figure S10. Shelf-life stability of chromic acid on silica as a pre-oxidation reagent for VOCs detection. (a) Digital color difference maps of *p*-xylene (after 5 min exposure) at its IDLH after pre-oxidation using the same batch of chromic acid on silica as it was aged (for 3 days, 1 month and 2 months, stored under N₂). For display purposes, the color range of these difference maps is expanded from 3 to 8 bits per color (RGB range of 3-10 expanded to 0-255); (b) Hierarchical cluster analysis for the responses of *p*-xylene after pre-oxidation using the same batch of chromic acid on silica as it was aged (for 3 days, 1 month and 2 months, stored under N₂), each batch of chromic acid stored various lengths of time were run using triplicate trials of *p*-xylene compared with the array responses in quintuplicate to benzene, ethylbenzene, *o*-xylene, and *m*-xylene (all at their IDLH) and a control of N₂.

Table S1. Database for 20 VOCs at IDLH and a control with pre-oxidation after five min exposure.

	R1	G1	B1	R2	G2	B2	R3	G3	B3	R4	G4	B4	R5	G5	B5	R6	G6	B6	R7	G7	B7	R8	G8	B8	R9	G9	B9
Control 1	-0.67827	0.124634	0.257971	-0.07826	-0.82608	-1.46667	-0.22029	-0.31594	-0.95363	0.156525	0.304344	0.066666	-0.46376	-0.55072	-0.12754	-0.26667	0.023186	0.547827	0.104348	-0.27536	0.205795	0.44928	0.315933	-0.41449	0.371017	0.086952	-1.46088
Control 2	-0.2029	0.373917	-0.10435	2.159409	3.617386	4.689857	2.05217	1.973915	2.50145	1.631882	0.550728	0.889854	1.657974	1.263771	1.652174	0.707245	1.794205	0.857971	0.101449	0.605797	0.394211	-0.25508	-1.13335	-0.64638	1.101448	0.359421	-1.16522
Control 3	0.782608	0.478264	0.263768	0.110153	0.626083	-0.56522	0.043488	-0.108986	1.50145	0.339142	0.400002	-0.43478	-0.04347	0.489853	-0.25507	0.252174	-0.04058	-0.46377	-0.43189	-0.48116	-1.46376	0.156525	0.191299	0.614494	0.011597	-0.36232	0.298553
Control 4	-0.22029	-0.17682	-0.4087	-0.41159	0.101448	-1.12464	-0.18262	-0.16522	-1.71304	0.078262	-0.30724	-0.44348	0.110138	-0.6029	-0.58261	-0.28116	0.014488	-0.45797	-0.04638	0.44348	0.249268	0.055084	-0.90724	-1.0145	-0.52174	-0.14203	0.168121
Control 5	-0.29276	-0.4	0.269565	0.223219	0.014488	-0.3971	-0.12755	-0.03478	-0.9971	0.008698	0.292755	-0.32464	-0.43768	-0.04348	-0.23478	0.663765	0.301453	-0.70145	-0.41449	-0.30725	1.379715	-0.13913	-0.57971	-1.18551	-0.85507	-0.263376	0.898544
Ethanol 1	-5.31015	3.57391	0.698551	-5.42899	4.13913	-10.6725	-0.31593	2.124641	-2.06957	0.260864	-2.75362	1.707253	-6.72464	2.353638	-19.713	-1.73914	-0.93623	-1.42899	6.602898	-6.93913	-17.3044	15.6058	-65.687	-37.3362	120.1884	87.41449	-130.667
Ethanol 2	-5.42609	3.411594	0.568115	-7.46957	4.565216	-9.66377	-0.71014	2.58551	-1.46668	-0.46664	-3.21739	0.075363	-10.8464	3.002899	-27.3507	-2.88985	-0.74493	-2.84348	5.950725	-6.97681	-16.2667	14.58551	-0.06691	-40.4174	112.9159	84.21159	-119.881
Ethanol 3	-4.68115	4.197102	0.814493	-6.85217	4.3797	-10.4667	-0.8203	2.199997	-1.94203	0.292755	-2.90145	1.710144	-7.13913	2.478256	-20.1971	-2.73914	-0.90144	-1.93993	5.918841	-5.1942	-11.687	15.85797	-59.2609	-34.0957	112.5015	78.94203	-125.954
Ethanol 4	-6.83188	3.713047	-0.05797	-5.97392	5.481171	-10.0029	0.165222	2.939133	-2.1739	0.106376	-2.07536	1.785507	-6.04929	2.368118	-21.7623	-2.35942	-0.49275	-2.71304	5.527536	-5.42319	9.65508	15.72464	-59.2145	-33.1768	82.91884	-131.043	
Ethanol 5	-3.54784	1.97681	0.94203	-1.38551	1.385498	-1.89856	0.347839	2.223183	-1.93913	-0.04347	-1.45507	1.124641	-2.51885	0.237686	-4.45218	-1.73044	0.310143	-0.64348	7.113044	-7.43189	-22.8696	9.759415	-55.3159	-40.7101	115.2927	82.03768	-128.38
Ethyl acetate 1	-0.45508	0.29855	0.423188	0.785507	0.959419	-0.72174	-0.11015	0.426086	0.924637	0.53624	-0.15363	0.51217	-0.127533	0.44928	0.68116	-0.04058	1.17971	0.698547	-0.22029	-1.27826	-3.10436	1.556534	-6.96523	-11.2087	30.81449	13.30145	-93.2754
Ethyl acetate 2	-1.2058	0.45797	0.913044	-1.02029	0.109857	-1.60291	0.339142	0.898552	-0.24928	0.50145	-0.30724	0.188408	-0.28116	-0.2029	1.695648	0.449272	1.217392	0.971012	0.150725	-0.20869	3.08116	0.1055069	-6.31014	-11.7913	41.29565	22.21739	-98.2899
Ethyl acetate 3	-0.71014	0.411594	0.405798	0.353622	0.321739	-0.53044	0.104355	0.759422	-0.94782	-0.1942	-0.5797	0.550728	-0.46956	-0.76233	0.875366	-0.23478	0.27536	-0.44348	0.144928	-1.26957	-5.12174	1.408691	-8.67535	-11.2116	32.13043	13.64348	-98.3478
Ethyl acetate 4	-1.22896	0.54203	0.142029	-0.11304	0.195193	-0.97971	0.043472	0.782606	0.269577	0.379715	0.397102	0.939125	-0.05217	-0.02608	1.124641	-0.28986	1.549493	-0.02319	1.47826	-1.93333	-2.9884	1.478265	-7.16521	-11.6377	39.6116	21.4058	-95.6812
Ethyl acetate 5	-1.16232	0.373913	-0.04348	0.49275	0.45797	-1.11304	-0.13769	1.028992	-0.56812	-0.65216	-0.13913	0.202896	-3.18883	-0.66087	0.88696	0.481163	-0.16232	0.243478	-0.88986	-3.8116	0.802902	-6.97102	-9.33333	29.63768	12.7942	-94.4957	
Isopropanol 1	-20.7275	4.34203	-3.16522	29.6956	16.83769	-36.913	-0.3826	0.898552	-8.48116	-8.57391	-2.35362	-3.61739	-34.7565	12.89565	-35.8812	-8.74493	-6.88406	-18.229	0.263768	-1.66957	-6.31015	-1.31883	-3.63188	-5.88116	9.605795	1.211594	-37.1246
Isopropanol 2	-16.9942	3.321739	-0.05797	-19.458	9.556519	-24.5507	-1.05508	0.724632	-5.47537	-5.30435	-4.64348	-2.78551	-28.0783	9.295654	-32.0145	-9.43188	-8.48406	-19.4638	0.092754	-1.15942	-6.77101	-0.89566	-2.42029	-4.44928	7.040581	0.223188	-33.9246
Isopropanol 3	-20.1565	2.985508	-3.02899	-29.4116	14.98261	-40.9478	-1.64926	-0.68067	-10.7884	-0.3797	-5.0058	-3.82319	-31.5362	10.56522	-33.2	-12.8609	-10.7971	-23.0406	0.127536	-1.25507	-6.0174	-0.76811	-2.72754	-3.44928	4.962318	-27.9072	
Isopropanol 4	-22.0493	4.631886	-3.73333	-29.2464	16.42609	-39.9275	-1.2	0.31884	5.73624	-10.0464	-2.82609	-3.02029	-28.3507	10.42319	-19.4928	-19.48563	-1.41519	-4.89565	0.64638	-2.29565	-2.12754	5.608699	0.008696	-25.258			
Isopropanol 5	-21.3884	4.408695	-6.48116	-30.5449	15.67536	-39.8899	-1.12174	0.565216	-9.10724	-12.6203	-3.06087	-5.04927	-33.7855	12.6087	-30.9478	-10.5449	-9.22029	-20.9188	0.281159	-1.92464	-5.06667	-0.64928	-2.92174	-3.25217	7.246378	0.385508	-10.4058
MEK 1	-1.65797	0.997101	0.730434	0.127533	1.440582	-1.27536	-0.73624	1.121742	-0.29855	-0.09276	0.530434	0.092751	-0.15405	0.547821	-1.46957	-1.36811	1.423187	-0.21159	2.286957	-2.86956	-15.0636	7.736237	-42.3913	-13.7652	102.571	65.68116	-145.768
MEK 2	-2.84638	1.408695	1.214493	-0.27826	-0.22897	0.168121	-0.286957	0.95652	-0.30144	-0.42029	0.049278	0.431885	0.023193	-0.54204	-1.40289	-0.63478	0.950729	-0.05797	2.463768	-1.53913	-15.1246	6.886948	-41.4783	-14.0493	99.49855	64.42319	-140.542
MEK 3	-1.28116	1.513042	1.321739	-0.3188	0.797096	-1.24637	-0.49275	1.191307	0.446365	-0.10146	-0.11594	0.608696	-0.15073	0.385513	0.142029	-1.51595	0.708262	-0.49275	2.136232	-1.33623	-15.7942	9.205795	-14.17971	-145.258			
MEK 4	-2.05217	0.968117	0.295652	0.052185	0.559418	-0.42319	-0.64638	1.568123	-0.15363	-0.22318	0.298553	0.489853	-0.30725	-0.21159	-0.4	-2.07826	1.359421	-0.26377	2.724638	-1.72754	-14.7188	6.176804	-38.9855	-12.7652	100.8087	63.87536	-143.849
MEK 5	-0.54202	1.423191	0.898551	0.102897	1.881157	-0.68115	0.31891	1.33623	0.208991	1.924637	-0.666664	-0.57681	0.80701	-0.1913	-0.55942	-0.46087	2.223183	-0.37101	1.72464	-12.2841	0.946371	-43.6116	-18.0377	102.3637	67.09275	-136.125	
Styrene 1	-3.04057	0.164375	1.115942	-0.65218	-1.72174	-0.20209	-1.17682	0.171005	-1.30507	-1.255074	-1.5739	-0.94782	-0.504923	-0.26667	-0.307241	-0.23478	-0.10507	0.30724	0.23478	-0.13084	-0.30724	-0.23478	-0.10507	0.08667	0.08667	0.08667	-125.426
Styrene 2	-2.75652	0.353622	1.913042	-0.54782	-0.77391	-1.85217	-0.22318	-0.20869	-0.6087	0.159998	-0.69855	-0.83189	-0.16985	-0.59131	-0.878261	-0.16985	-0.59131	-0.878261	-0.16985	-0.59131	-0.878261	-0.16985	-0.59131	-0.878261	-0.16985	-0.59131	-0.878261
Styrene 3	-1.35942	0.761816	0.504348	-0.51305	0.6768	-0.68695	-1	-0.69568	-0.76233	-0.26668	-1.39999	-0.30188	-0.30457	-0.86957	-0.32446	-0.321748	-0.382116	0.536232	-0.34203	-0.149275	-0.23478	-3.816478	3.65506	-29.46667	7.582517	-121.91	
Styrene 4	-0.91884	1.266666	1.889553	0.228989	0.423187	-0.234772	-0.09564	0.510147	-0.32403	0.073236	-0.556552	0.446373	0.129275	-0.86667	0.107239	-0.381159	0.414493	-0.31034	0.098551	-0.21388	-6.3681	0.517392	-30.13262	-31.3275	100.1391	81.66087	-117.406
Styrene 5	-1.21159	0.695652	1.686957	0.072464	-0.32463	-0.35362	-0.0887	-0.10725	0.782608	0.820297	-0.68695	1.852173	-0.86377	-0.1768	-0.293623	-2.2029	0.2089851	-0.6116	0.675362	-0.15507	-7.25508	4.194199	-26.5507	-22.0319	82.77681	64.12464	-120.438
Acetone 1	-1.51595	1.055073	0.182609	-0.63677	0.02899	-1.35942	0.026077	0.733337	-0.88696	-0.26666	0.133331	-0.43767	-0.1739	0.915939	-0.0029	0.736229	0.837681	0.136232	-1.04638	-2.48116	-0.37102	-3.68115	-4.73333	18.37971	7.831884	-58.4609	
Acetone 2	-1.6029	1.046379	-0.21449	0.084061	-0.89886	-1.59129	0.437683	-0.1971	-0.13043	-0.48406	-0.20869	0.292747	-0.48116	-0.3632													

	R10	G10	B10	R11	G11	B11	R12	G12	B12	R13	G13	B13	R14	G14	B14	R15	G15	B15	R16	G16	B16	R17	G17	B17	R18	G18	B18	
Control 1	0.26087	-0.26667	-0.74492	1.417389	0.124641	-2	-0.29855	-0.88405	-0.10725	0.455078	-0.59999	-0.54782	0.495651	0.208702	-1.24379	0.594203	0.417397	-1.55072	1.449276	0.55072	-0.67827	0.211594	-0.30144	0.136246	-0.46668	-0.46087	0.052177	
Control 2	-0.01159	-0.16522	0.066666	1.15942	0.763267	-1.96231	-0.14493	-0.14203	0.426086	-0.75362	0.026093	-1.43768	-0.39131	-2.24638	-2.72754	0.75942	-0.22609	-0.77103	0.202898	0.028984	-0.18262	0.176819	-2.90146	0.489853	1.49855	0.652176		
Control 3	0.150725	0.846378	-0.55652	0.257973	0.205803	0.217392	-0.25507	-0.08116	-1.05797	-0.12463	-0.37972	-0.02899	0.072464	0.107246	-0.08696	0.092751	-0.71884	-0.08696	0.321739	0.13623	-0.78551	0.005798	0.110138	0.582596	-0.03188	-0.82898		
Control 4	0.014493	-0.10145	-0.74783	0.988405	-0.13913	-1.74493	-1.2029	-0.55362	-1.03478	-0.36812	-0.22899	-0.58841	-0.12174	-0.19131	-0.91594	-0.10725	-0.04058	-0.25507	0.223186	-0.22029	-0.96812	0.463776	-0.42899	-2.41449	-0.64348	-0.02898	-0.47536	
Control 5	-0.0058	0.165218	0.940203	0.130434	0.388412	-1.04637	-0.74204	0.284058	-0.37971	-0.47537	-0.71304	1.142029	-0.05219	0.460869	-0.2058	-0.07246	0.176811	0.037689	-0.41159	-0.08115	0.510132	-0.58261	-0.1797	-1.70145	-0.22609	0.347824	0.13044	
Ethanol 1	41.65797	58.99131	-117.864	163.3478	67.32463	-123.209	10.69276	6.173904	-6.11594	20.06377	13.33044	-9.49276	94.70435	101.9971	-23.5015	0.904348	7.67826	-0.33261	0.86087	-14.2116	-17.8029	4.24057	2.60295	0.768112	-1.82898	0.678261	2.063766	
Ethanol 2	44.67246	57.55362	-118.426	157.6232	62.57682	-114.064	8.611588	5.834778	-4.92754	18.20869	12.34493	-8.65218	88.2116	95.51885	-22.771	0.64058	-6.4029	-30.9246	2.875362	-13.0087	-17.8899	1.953613	1.994202	-0.48116	-1	1.379715	-0.26667	
Ethanol 3	31.42899	49.26957	-110.322	151.2261	64.93044	-119.626	9.30153	6.243484	-3.43768	20.66957	14.30344	-9.02028	88.49565	95.57681	-21.858	0.423189	6.90725	-32.0058	1.736232	2.475732	1.208694	0.817383	2.33913	1.121738				
Ethanol 4	31.82319	49.22609	-107.701	153.8145	64.72173	-119.528	8.86087	7.70726	-4.33913	20.2058	15.39131	-9.43189	99.51595	23.3913	-9.47826	6.48956	-27.14	3.814493	-11.9362	14.8638	3.295654	2.36232	-1.8232	-1.3971	2.069572	5.643478		
Ethanol 5	34.91884	53.43189	-110.377	154.5797	59.23188	-112.907	7.939133	5.530426	-3.8058	14.43474	7.643776	-7.8029	88.13333	95.47978	-21.6638	0.64058	-6.12174	-29.571	3.976812	-12.2203	-15.0522	2.936234	0.309752	0.800003	0.808696	0.878258		
Ethyl acetate 1	0.278261	-1.49855	-13.9623	36.04058	18.10145	-80.458	10.46088	5.77681	-1.08696	33.35562	27.07536	-8.45507	27.64637	25.44348	-7.22899	0.078261	-1.46377	-9.85797	0	-3.77971	-6.73044	0.515945	1.77681	0.713043	0.031891	1.072464	3.878262	
Ethyl acetate 3	0.118841	-1.76232	-21.2171	47.88895	21.2087	-86.8058	7.13913	4.420288	0.028984	21.92174	18.70725	-5.97101	29.14493	27.55362	-8.85507	0.066667	-1.75652	-11.5739	0	-4.02319	7.25217	1.353622	0.634781	0.968124	0.107254	1.040581	4.449276	
Ethyl acetate 4	-0.04348	-2.13623	-15.7391	32.64928	18.87826	-92.3565	7.014496	3.623184	-0.02029	27.2058	21.60001	-6.76667	28.13043	24.27826	-7.86087	0.046377	1.84638	13.4841	0.39105	-8.32755	-0.73914	-0.59421	-0.57101	-1.0029	-0.27827	3.113045		
Ethyl acetate 5	-0.07536	-1.6116	-19.4319	43.50724	19.96812	-85.8927	4.113037	3.408707	-0.34782	15.90434	-4.56812	25.90724	24.45507	-7.42319	0.008696	-1.08406	-12.8116	0	-3.5971	-5.43768	0.944916	1.655075	0.591309	-0.45506	-0.55652	4.217392		
Ethyl acetate 6	-0.01739	-1.95073	-16.6841	36.88696	17.74203	-86.1623	4.434784	2.217392	-0.70145	26.46666	20.59709	-8.57101	24.04347	21.15363	-7.44058	0.005797	-1.29855	-13.7304	0.005797	-4.43189	-8.14783	0.089859	-0.33623	-1.48406	-1.36812	-1.07246	1.18261	
Isopropanol 1	-0.01739	-4.15072	-8.77972	0.208696	-0.2898	-31.2609	5.25798	-0.51885	-4.5942	16.23189	11.0058	-6.57247	15.27246	13.08696	-4.97971	0.084058	-2.48985	-5.73912	0	-3.02898	3.53072	-0.68405	-4.60289	-4.86377	-4.83975	1.895649		
Isopropanol 2	0	-4.8	-11	0.086957	-0.41593	-37.2609	7.97976	10.0598	-0.40459	-4.77101	16.08984	11.67246	-6.79561	15.37392	-12.71594	-4.94783	0.518841	-1.36522	-6.91306	0	-3.45217	-5.90146	-0.68407	-1.05057	-0.504637	-5.09856	-11.3623	3.373917
Isopropanol 3	-0.23188	-5.59131	-8.52464	0.368116	-0.93333	-41.5913	7.286957	-0.43767	-4.88116	19.86955	14.97681	-7.5971	16.16811	13.83479	-6.38261	0.046377	-2.5942	-8.77681	0.194203	-4.02319	-8.80579	-0.58261	-1.28696	-9.67827	-7.75072	-15.1739	5.666668	
Isopropanol 4	0	-5.13623	-13.7391	32.64928	18.87826	-92.3565	7.014496	3.623184	-0.02029	27.2058	21.60001	-6.76667	28.13043	24.27826	-7.86087	0.046377	1.84638	13.4841	0.39105	-8.32755	-0.73914	-0.59421	-0.57101	-1.0029	-0.27827	3.113045		
Isopropanol 5	0.055072	-4.76522	-6.53623	0.834783	0.034782	-39.1942	5.707245	-2.45218	-5.47247	19.31015	12.89856	-6.43189	19.18841	16.4087	-6.3913	0.263768	-2.12464	-9.91304	0	-3.92754	-10.1304	0.53334	-0.98262	-11.2956	-4.09568	-11.5681	0.550724	
MEK 1	11.30435	21.55072	-85.0957	128.542	56.88116	-125.012	13.92174	10.07826	-0.38551	38.13913	28.72754	-11.2812	74.8232	74.09855	-17.6203	0.350725	-4.36232	-31.6667	0.017391	-10.3188	-13.4464	0.979706	1.681152	-1.78841	-0.3913	0.860867	4.585506	
MEK 2	9.043478	18.4	-80.8058	127.3304	57.84058	-128.481	13.95941	9.22319	-0.64348	36.3768	21.04637	-11.2348	79.15073	79.42029	-19.7188	0.307246	-4.33913	-29.3739	0.055072	-9.41449	-12.7245	0.910156	1.062323	-1.17102	-0.12174	-0.27826	4.614494	
MEK 3	8.504348	18.5942	-81.3304	128.5942	59.57391	-130.081	13.07536	10.31305	-0.78261	37.56522	27.53043	-11.229	82.24347	81.04929	-19.2812	0.142029	-4.42319	-30.0667	0	-9.73623	-13.5594	0.604579	0.568115	-1.29565	0.797104	0.015189	3.475365	
MEK 4	7.915942	18.14203	-79.8609	127.7391	55.38841	-123.623	10.5797	8.73912	1.597103	40.56552	32.54202	-11.1478	77.40289	76.06957	-17.6638	0.191304	-4.03188	-28.742	0	-9.53333	-13.9768	1.037689	0.765213	1.371017	-0.97681	-0.13333	3.643478	
MEK 5	18.13333	26.67247	-89.5739	134.6435	53.37392	-114.139	10.52754	6.988403	1.266666	28.69566	22.02898	-7.94783	83.49564	87.39131	-21.8377	0.110145	-5.08985	-26.8899	0	-10.889	-14.858	1.698563	0.768112	-0.10436	0.611588	0.31884	4.278259	
Styrene 1	14.50725	22.08986	-84.171	141.6522	54.83768	-121.768	4.904143	5.219309	-0.83478	13.61739	11.64638	-6.43189	25.75561	26.57971	-9.26087	0.06087	-1.92754	-28.0029	0.194203	-7.84927	-17.744	0.588409	-0.64926	-1.77971	-0.16812	0.46371	4.788406	
Styrene 2	7.956522	16.95072	-74.3391	135.3449	54.13623	-113.4	2.391946	2.794205	0.011597	9.11013	9.643478	-3.01739	29.15043	29.16522	-1.730435	-6.62899	-16.6493	-0.61159	1.78842	-2.21159	0.397111	-1.73623	1.797096					
Styrene 3	8.669565	16.42609	-73.4435	131.3913	52.67246	-115.084	2.431885	2.452167	-0.84058	12.23189	11.06957	-5.27246	21.82029	21.19421	-7.27536	0.127536	-1.14493	-24.4348	4.73913	-5.94202	-13.8783	-0.55652	-0.67537	-1.04057	-0.18797	5.479132		
Styrene 4	7.646377	14.98261	-67.7739	119.0493	50.47537	-110.267	3.301453	4.05792	-0.29275	10.10434	9.94931	-1.31623	22.78841	22.63188	-6.77911	0.182609	-1.70971	-23.6812	0.707246	-3.84058	-13.1304	0.813879	0.513048	1.547821	0.347824	2.773911		
Styrene 5	8.026087	15.63479	-71.6985	130.9246	53.84638	-115.014	5.197113	5.518845	-1.52464	14.0145	11.34203	-3.75926	25.17838	25.77392	-8.06377	0.049275	-1.05217	-22.4551	0.017391	-6.04058	-12.4783	0.800003	-0.35942	-1.07826	-0.13913	0.005798	0.295652	
Acetone 1	-0.01739	-3.46956	-6.57391	13.24058	8.828987	-55.4638	8.295654	3.344925	-1.23478	21.25965	17.60291	-5.06087	14.37929	12.29565	-4.49276	0.005797	-1.3913	-5.92754	0	-2.03478	4.72174	1.199997	1.82608	0.41449	-0.69855	0.536228		
Acetone 2	-0.02609	-3.26377	-4.89855	10.50725	7.144928	-49.713	7.608704	3.823181	-1.45797	24.60289	20.9884	-7.64058	16.11594	14.24928	-5	0.310145	-1.08986	-4.47827	0	-2.36521	-3.34493	0						

	R19	G19	B19	R20	G20	B20	R21	G21	B21	R22	G22	B22	R23	G23	B23	R24	G24	B24	R25	G25	B25	R26	G26	B26	R27	G27	B27			
Control 1	-0.11035	0.107246	-0.21449	0.953613	0.162323	-0.48985	-0.47537	-0.52174	1.156525	0	-0.40869	0.327538	0.452164	0.110145	0.42029	-0.63478	-0.102517	-0.4029	-0.30435	-0.59419	-0.75942	0.257965	-0.29565	0.028986	-0.42899	-0.3942	-1.16521			
Control 2	0.513042	0.266666	-0.51304	-0.0174	-1.71014	1.515942	-0.28696	-0.02029	1.315948	0.48406	-0.57681	0.1046379	-0.11594	-0.0087	-0.4	-0.51015	-0.74783	0.626087	-0.59131	0.260872	0.130435	0.408707	0.081158	0.028986	-0.53622	-0.0029	-0.56813			
Control 3	0.026089	-0.03768	0.002899	-0.21159	-0.34782	0.579712	-0.74783	0.739136	-0.59709	0.063766	0.185501	0.347828	0.692749	0.075362	0.463768	0.071395	0.113037	0.066667	-0.52174	-0.61739	0.362319	0.110138	-0.15073	0.066667	-0.6145	0.10521	-0.31595			
Control 4	0.04348	-0.54493	-0.24058	0.005798	-0.06957	-0.47246	-0.22899	-0.54202	0.255081	-0.07246	-0.28986	-0.91884	0.539124	-0.04348	-0.41739	-1.14783	-0.44638	-0.87536	-0.0174	0.066666	0.249276	-0.05507	-0.02319	-0.15652	0.313049	0.014496	-0.71594			
Control 5	-0.22319	0.21739	0.927536	-0.02319	-10.1044	-0.30145	0.153625	0.356522	0.13623	-1.0058	-0.28117	0.750725	0.718842	0.24058	0.063768	-0.50435	0.231888	0.130435	0.020294	-0.14783	-0.11594	0.043472	0.066666	0.02029	0.260864	-0.09564	-0.90434			
Ethanol 1	1.562317	1.634783	-0.43189	5.226089	0.330429	-2.32464	-0.07536	0.121735	0.376816	0.417389	-1.39131	-1.01159	1.901443	0.486957	-0.82319	-2.41739	-1.69275	0.527527	-2.41449	-2.65508	0.472458	-2.90725	0.023189	-0.63768	-0.09564	-1.35942				
Ethanol 2	1.153625	1.266666	-0.43768	5.837677	2.020294	-3.09855	-0.82028	-1.44058	-0.32173	-2.05798	-0.74783	-1.4	0.455063	0.568116	-0.86667	0.3692764	0.101738	4.18261	0.921753	-2.88117	-2.58261	0.324631	-2.67826	0.869565	-0.87825	0.571014	-0.9884			
Ethanol 3	1.234779	1.811594	-0.69856	0.4804061	-0.505069	-1.8029	0.252182	-1.35623	4.657974	-0.06957	-0.25508	-1.42899	0.1515945	0.547826	-0.26377	-0.06087	-2.74204	0.2257973	0.915939	-2.5855	-1.91594	-0.10436	-2.44058	0.93913	0.382599	0.553149	0.126086			
Ethanol 4	1.342026	1.692755	-0.32174	7.107254	2.246384	-1.31015	0.721741	0.11035	1.600006	0.495651	-0.31014	0.1982605	0.565217	-0.83768	0.695648	0.181738	2.118839	0.2046371	-2.66956	-0.49276	0.582611	-1.66377	0.956522	0.115936	1.901443	0.785057				
Ethanol 5	1.084061	1.6029	-0.36521	0.301453	0.08696	-0.53043	-0.76231	0.965225	0.188962	0.273573	-0.13623	-3.06957	0.985504	0.692754	-0.93913	0	-1.25217	-2.30725	0.014481	-1.37972	-4.11594	-0.03188	-0.17932	0.204925	0.504349	0.211594	0.014481			
Ethyl acetate 1	0.449276	1.139131	-0.35942	0.440582	0.26093	-0.22319	-5.56233	-5.29565	1.202896	0.684052	-1.3913	-0.09275	0.86956	0.005797	0.150725	0.773911	0.44928	-1.42319	0.802902	-0.35942	-1.04348	1.072464	0.330429	0.272464	-0.59421	-1.03677	0.393913			
Ethyl acetate 3	0.307251	0.84058	-0.47247	-0.92754	0.568115	-0.76232	0.544937	0.049271	1.704346	0.507248	0.08696	0.24048	0.26667	0.049275	0.050572	0.704346	-0.12174	-1.31043	0.40579	-1.44943	-0.6029	0.098549	-0.04638	0.614487	-0.45796	0.017395				
Ethyl acetate 4	0.756519	0.826087	-0.35072	0.356522	-0.829	-0.33623	0.432026	0.168111	0.4359421	0.214943	-0.3884	-0.26376	-0.44058	0.014493	-0.24928	0.153625	0.151015	0.136323	0.046371	-0.97052	-1.91015	0.559418	-0.17391	-0.18261	-0.22899	-0.28986	-1.3768			
Ethyl acetate 5	-0.0145	0.869564	-0.24638	-0.55652	0.211609	0.07246	0.133331	0.231888	1.295654	-0.66666	-0.3913	-0.64638	0.385506	0.002899	-0.29855	-0.73624	-0.89856	-1.0058	0.026093	-0.49855	-0.74203	0.011597	0.437675	0.231884	0.289856	0.168106	-0.76813			
Ethyl acetate 7	-0.04058	0.431884	-0.6	-0.82898	-0.55362	-1.0058	-0.91304	0.153625	-0.12174	-0.23188	-0.65508	-1.38841	0.266663	-0.0058	-0.12464	-0.92464	-0.85797	-1.57391	0.072464	-0.45507	-1.64058	-0.02899	-0.44058	-0.17681	-0.33333	-0.38551				
Isopropanol 1	-0.46956	0.50145	-2.29855	7.713043	2.315948	0.875362	0.837677	-2.43478	-35.6087	-1.0174	0.130432	2.168121	-0.00869	0	1.197101	-2.1768	0.502318	8.220287	-1.71884	-4.24058	0.197392	-3.08986	-2.47537	0.286667	0.44928	0.596236	0.026093			
Isopropanol 2	0.373913	0.655072	-2.49275	3.824637	2.417389	0.205797	0.866669	-0.47246	0.44206	0.75362	-0.12174	0.230433	-0.0087	0	0.15942	-1.35362	0.49045	7.33913	-1.2058	-3.62319	8.249275	-2.45798	-1.49855	-0.84928	0.084061	3.608704	-0.85797			
Isopropanol 3	0.463768	0.257971	-6.21449	9.466675	2.359421	0.202898	0.652176	0.643478	-57.6464	-2.57101	-2.66667	0.297101	0.017387	0	0.2	-2.6116	-7.19711	5.315941	-2.39999	-4.6029	0.853623	-2.56232	-1.17391	-2.0209	-1.65508	3.214493	-1.15653			
Isopropanol 4	0.443478	0.469565	-2.34493	8.875366	2.756516	0.338268	0.078262	-4.02911	-57.8087	-1.28696	-0.23479	0.54493	0.747826	0.081884	0	0.831884	-0.34494	-4.86956	6.733334	-0.93333	-4.1971	0.945082	0.30725	0.391312	5.678253	0.078262				
Isopropanol 5	0.686954	0.744927	-3.5971	7.730423	2.962326	4.452175	0.228898	0.457978	69.7623	0.65054	-0.14376	0.324481	0.850572	-0.02609	0.394203	-1.75653	7.585513	0.7968117	-0.426093	-0.415363	1.107971	-3.13043	-1.12464	-0.487536	0.800003	3.872467	0.281158			
MEK 1	0.47826	1	-0.38551	0.13623	0.553619	-0.68116	-0.26666	0.394196	2.272461	0.368118	-0.0174	-0.9855	0.707253	0.011594	-0.70145	0.791306	-0.39421	-0.46957	-0.51883	-0.24928	-0.50725	0.617386	-0.45508	0.649275	-0.12174	0.68985	0.408691			
MEK 2	0.107246	1.075362	-0.42319	-0.24348	0.028976	0.43478	0.373917	-0.10724	1.924637	-0.22029	-0.15071	0.38551	0.837677	0.011594	-0.0087	0.144928	-1.77103	-0.45217	-0.44928	-0.15942	-0.85217	-0.02608	-0.28986	0.489855	0.982605	-1.10724	-0.00868			
MEK 3	0.402897	1.15942	-1.04057	0.850572	0.486954	-1.12464	0.408707	-0.02319	0.278265	0.733322	0.272461	-0.97681	0.126667	0.066667	0.47536	0.188416	-0.43189	-1.38841	0.736237	0.040581	-0.50435	0.513046	-0.23478	-0.2029	-0.76231	-0.08116	0.457977			
MEK 4	0.710148	1.2	0.344925	0.730423	-0.28406	-0.31594	-0.20869	0.368118	0.343478	0.46376	1.618121	-0.10869	0.527534	-0.05507	-0.1971	-0.64638	-0.6116	-1.6058	0.162308	1.008698	-0.12754	0.750732	0.515942	0.211199	0.133331	1.191299				
MEK 5	-0.00579	0.23768	-0.22889	1.292755	1.614487	-1.29855	0.225167	0.634781	4.01738	1.962326	-0.149656	-0.193623	-0.31421	-0.06667	0	0.318841	-0.274246	-3.64348	-2.4087	-3.10725	-0.204638	-0.234189	-0.184046	0.568115	-0.27536	-0.09144				
Styrene 1	1.011589	0.810116	-2.66956	-0.228899	-0.17826	0.399988	-1.11305	-0.62898	-1.49656	-0.46956	-0.193623	-0.31421	-0.06667	-0.14739	-0.23189	-0.19421	-0.06667	0	0.318841	-0.274246	-3.64348	-2.4087	-3.10725	-0.204638	-0.234189	-0.184046	-0.09144			
Styrene 2	0.330429	0.733332	-1.31594	0.874247	-1.20001	-0.84064	-0.49275	-0.0145	-0.29044	0.67247	-0.44928	-0.234189	-0.45965	0.391304	0.295651	-0.87287	-1.41161	-0.232464	-1.34493	-0.10288	-0.28408	-0.15045	0.950725	-0.29854	-1.11014	-0.54782				
Styrene 3	0.637688	0.371016	-1.74493	0.405792	-1.5797	-0.6087	-0.85217	-0.235072	-1.31303	-0.44638	-2.50435	-2.77971	-1.50145	0.121739	-0.03478	-0.243478	-2.8058	-0.64638	-0.87537	-0.88406	-3.11884	-0.12319	-0.45797	-0.29565	-0.1924	-0.35942				
Styrene 4	1.147842	0.307482	0.692757	1.605804	0.288958	0.52174	0.27464	0.736221	-1.13913	0.214493	0.359421	-0.13104	0.249268	0.04058	0.553623	0.257988	-0.59388	-0.6029	-0.06087	0.20597	-0.16522	-0.12898	-0.35942	-0.84638	-0.64928	-0.606087	0.440579	0.73912	-0.39131	-0.16812
Styrene 5	0.521744	0.901449	-0.35072	0.19997	-0.31595	-0.134782	-0.07826	0.87825	-0.51071	-0.14298	-0.22029	-0.05101	-0.124928	-0.02079	-0.50435	-0.65508	-0.26087	-0.06087	0.20597	-0.16522	-0.12898	-0.35942	-0.84638	-0.91884	-0.66087	0.542029	-0.35652	-0.76231	0.1576813	
Acetone 1	0.237679	0.811594	-0.56812	-0.8174	0.208694	-0.37391	0.228898	0.092758	1.614502	0.008698	0.011597	-0.97681	0.394203	-0.01159	-0.62029	-0.07826	-0.13623	-0.13652	0.437478	0.060867	-0.7971	-0.11014	0.292755	0.49855	0.50145	0.234787	-0.31884			
Acetone 2	0.643475	0.617391	-0.902758	-0.49565	0.0	0.017391	0.489868	-0																						

	R28	G28	B28	R29	G29	B29	R30	G30	B30	R31	G31	B31	R32	G32	B32	R33	G33	B33	R34	G34	B34	R35	G35	B35	R36	G36	B36	
Control 1	-0.1942	-0.67246	0.979706	0.284058	-0.46376	0.388412	-0.33623	-1.10144	-0.21159	-0.94492	-0.86087	-0.51885	0.249275	0.179703	-0.24348	-0.1913	-0.88696	-0.06667	-0.20001	-0.06667	0.452173	0.347828	-0.45217	0.756531	0.510143	-0.63768	-0.98552	
Control 2	0.530434	-0.14783	0.921741	0.411606	-0.14783	-1.13623	-0.68115	0.565216	0.89566	0.023193	0.68985	-0.08986	0.382607	-0.10179	0.591707	0.278275	0.257965	0.257971	-0.62318	-0.55364	-0.28696	0.405796	-0.4	-2.57391	0.472464	-0.1884	-1.06377	
Control 3	0.17971	0.13913	0.020294	-0.1913	-0.36811	0.1049286	0.156525	-0.02318	0.768112	-0.25058	-0.92464	0.159424	-2.69566	-2.14203	-2.64928	-0.80289	-0.10144	-0.02899	-0.209	-0.08406	-0.06087	-1.57101	-1.45508	1.568115	0.197102	0.057968	0.388412	
Control 4	-0.06377	-0.49275	-0.50145	0.547821	-0.70725	-1.02899	-1.29855	-0.42319	-0.59709	0.727539	0.263763	-0.46957	0.556526	-0.30145	-1.31015	-0.32465	-0.77681	0.481159	0.075363	-0.08986	0.130435	0.379709	-0.07536	-1.08695	0.034782	-0.06087	-0.66377	
Control 5	-0.43478	0.055073	-0.04927	-0.07246	-0.13044	-0.23477	-0.11595	0.742035	-0.71884	0.043472	-0.67825	0.1040588	-0.03768	-0.25218	-1.23767	0.727524	-0.64638	0.304347	-1.02899	0.286957	0.052174	0.286957	-0.27247	0.46666	0.200001	0.092751	-0.95363	
Ethanol 1	-1.55362	-1.12464	-1.13623	2.255081	0.452171	-1.76231	-0.22029	-0.78261	-0.15363	0.1884	0.165222	0.330444	-1.1913	-1.06377	-0.19421	8.86377	2.565216	-2.35073	1.50435	0.217392	0.124638	0.075363	-2.97102	-11.4638	0.205795	-2.2058	-7.74783	
Ethanol 2	-1.58841	-0.55652	-1.18261	-0.79131	0.272465	-2.0029	-1.85217	-1.58261	-0.42609	0.124634	-0.11884	-1.28406	-0.94783	0.472473	-0.10434	8.417404	0.939133	-0.01159	-2.88985	1.075363	-0.17971	-0.10725	-2.62318	-12.4899	-0.31304	-2.90145	-7.14493	
Ethanol 3	-1.7942	-0.8145	-0.62889	-0.75363	0.102094	-0.13333	0.243484	0.22899	0.455078	0.05217	0.324646	-0.41159	-0.51015	-0.53622	-0.15195	7.968109	2.503426	-2.82609	1.86377	0.336227	0.156522	0.484058	-2.14203	-10.513	0.623188	-1.82609	-5.92464	
Ethanol 4	-1.28696	0.62029	-0.49276	-0.06667	0.106517	-1.73622	-0.71884	0.249283	-1.0145	0.991302	0.536224	1.428986	-1.05219	0.8116	0.562332	10.42897	2.40807	-0.78261	-1.91324	2.205795	0.272464	0.292751	2.86087	-12.6841	0.315945	0.62608	-6.87827	
Ethanol 5	-0.87247	-0.31304	-1.31594	2.385598	0.344925	-1.41449	0.437683	0.785507	0.584009	0.292755	-0.28406	-0.3971	-0.94783	0.081161	1.628893	8.133331	1.50145	0	-0.23477	0.626083	0.385507	-0.22899	-1.91014	-8.78261	0.373913	-1.55653	-5.36812	
Ethyl acetate 1	-0.10145	-0.69657	-0.67537	1.107254	0.446377	0.785507	-0.11014	0.49855	0.304352	0.27536	0.588409	1.092758	0.411606	0.240585	0.628893	4.626083	1.185501	0	0.533325	0.962311	-0.05797	-0.23478	-0.28986	-1.57971	-0.46377	-1.44928	-2.77392	
Ethyl acetate 3	-0.02029	-0.14783	-0.95652	0.301437	0.324638	0.165222	0.171005	-0.77971	0.075363	-0.72464	0.721741	0.234787	0.6203	0.58551	3.713043	0.240585	0	-0.16522	0.237686	0.017391	0.223188	-0.88696	-1.68115	0.127537	-1.68406	-3.15073		
Ethyl acetate 4	-0.21449	0.30145	-1.24348	0.205795	-0.14203	-0.8232	0.553619	-1.10725	-1.30145	0.020297	-1.46378	0.095657	-0.675369	-1.53914	-0.79419	3.771011	-0.11015	-0.01449	0.34203	-0.04057	-0.0058	0.371016	-1.53623	-2.78551	0.107246	-2.00579	-3.09855	
Ethyl acetate 5	-0.5942	-0.18261	-0.8	1.133331	0.220291	-0.06957	-0.72464	-0.2	-0.66666	-0.55942	-0.06957	0.402893	0.457962	0.579712	-1.26956	1.542038	0.950729	-0.13333	0.295654	0.481155	-0.04928	0.481159	-0.66956	-1.91884	-0.29855	-1.75652	-2.62898	
Ethyl acetate 6	-0.57971	-0.22029	-1.73043	0.008698	-0.08116	-2.22609	-0.37972	-1.71022	-0.84639	0.060883	-0.13913	0.469574	-0.43189	-0.07244	0.315933	1.985504	-0.42609	0	0	-0.06957	0.727539	-0.02609	0.440578	-1.11594	-3.85507	-0.76522	-2.39313	-3.75073
Isopropanol 1	-1.83478	-0.3971	0.582611	-54.6348	18.13913	-0.3652	-1.26956	-4.33623	-6.76521	-1.37972	-2.40289	-0.59333	-1.24637	0.710144	-7.20869	1.939133	-26.9536	0	-0.548985	-0.959453	-0.0087	0.808697	0.942032	-26.0986	4.22139	-4.94203	-20.6985	
Isopropanol 2	-0.17536	-0.35652	0.04348	-46.9304	10.47536	-0.93044	-0.9913	-7.06087	-7.64928	-0.59653	-2.16522	-5.8075	-0.80406	0.80578	-5.59421	3.125748	-30.7855	0.133333	-6.09566	-1.8	-0.04928	0.257911	-2.10725	-23.8191	2.42029	-4.365522	-15.8696	
Isopropanol 3	-1.27536	-1.09855	0.09565	-55.1391	13.24638	-2.36231	-1.71884	-7.2029	-8.38261	-1.64348	-3.25217	-8.3797	0.765213	1.113037	-9.52463	4.026093	-41.5855	-0.09275	-8.08406	-2.41739	0.136232	5.2029	-0.05217	-31.9681	5.049274	-2.2029	-16.4348	
Isopropanol 4	-1.28406	-0.57971	1.176811	-50.5739	14.31884	0.994202	0.391312	-2.02029	-2.16521	-0.90436	-1.57681	-6.11304	1.078262	1.678253	-4.95941	3.82897	-32.116	0.121739	-5.26666	-0.61159	0	0.284058	-0.25507	-23.5971	0.701448	-4.6058	-15.6203	
Isopropanol 5	-1.18551	-0.64058	0.153625	-58.6551	20.13913	-1.84064	-0.28696	0.536323	-7.06087	0.03479	-2.48985	0.670146	0.542038	0.205185	6.617401	-47.7043	0.089855	-6.25798	-1.91014	-0.33044	7.304348	1.721741	-32.658	3.782602	-4.13623	-17.0899		
MEK 1	-0.10145	-0.13333	-0.57681	1.51593	0.191307	-1.36232	0.228973	0.046387	-0.60869	-0.28696	-0.33334	1.527542	0	0.159409	0.979721	3.150711	-1.50725	0	0.373917	1.73912	0	0.794203	-0.10725	-4.22029	0.431885	-3.6087		
MEK 2	-0.3912	-0.36232	-0.15652	1.707245	-0.09855	-1.04347	0.507248	-0.77973	0.097242	0.121735	0.779709	0.684052	-0.34782	-0.32175	-0.03188	3.576797	-2.95363	0.008696	-0.23479	0.626083	-0.06957	0.44058	-0.74203	-4.80289	0.646378	-1.37391	-1.44058	
MEK 3	0.020289	0.09565	-0.75362	1.53624	0.110146	-0.71304	0.234787	0.524643	-0.24059	0.023178	0.785507	-0.2058	0.333344	0.326088	0.3824576	-2.9971	0	0.118835	0.837677	0.27911	0.51942	-0.51885	-4.65797	-0.21159	-1.25217	-2.44637		
MEK 4	-0.09275	0.011593	-0.65217	1.428896	0.386114	0.382614	0.339127	0.510147	-0.91014	-0.3971	1.486954	-0.05508	0.869568	0.608704	1.428898	3.211594	-0.96811	0.055072	0.098555	1.50145	-0.31884	0.510145	-0.37101	-2.18552	0.440578	-0.32754	-2.68116	
MEK 5	0.057971	-0.06667	-0.71594	1.820282	0.052174	0.063766	0.684067	-0.71304	1.91299	1.272461	0.785507	0.55072	-0.02319	0.518845	0.785507	3.768112	-2.31595	0	0.173623	0.863777	-0.0508	0.382608	-1.20001	-3.28116	0.791306	-1.30145	-2.46956	
Styrene 1	-1.04638	-1.84348	-1.76522	-0.96521	-0.5942	-0.20437	-0.05217	-2.62029	-0.43478	-0.4928	-1.66666	-0.85217	-1.34493	-1.56522	-0.011597	4.214493	-0.9855	-0.34782	-1.36522	-1.35274	-0.11884	0.8	-0.32174	-2.52174	-16.2928	0.243477	-3.47826	-9.38261
Styrene 2	-0.65797	-0.62319	-1.44438	-0.92464	0.356522	-1.15653	-0.28696	-0.9884	-0.17246	-0.408406	-1.46956	-0.9913	-0.49855	-0.92754	0	0.846530	0.252182	0.243478	-0.052174	0.213792	-1.59129	0	0.245728	-1.30232	-0.09855	-1.91884	-6.70435	
Styrene 3	-0.48406	-0.55072	-0.96232	-0.78261	-0.28261	-1.48406	-1.56522	-1.94783	-2.70145	-0.13335	-1.10724	-1.8087	-1.3826	-1.95943	-0.0174	4.808701	-1.08406	-0.20209	-0.41449	-0.35362	-0.94203	-0.51942	-0.311594	-3.11595	-0.21449	-9.57101		
Styrene 4	-0.04928	0.208696	0.205795	0.243469	0.052177	0.197536	0.127548	-0.11034	1.301453	0.106666	0.991701	0.304337	0.568115	0.707245	0.463776	7.1884	-0.40289	0	0.805786	0.1669571	-0.182621	-0.211597	-1.78551	-12.7768	0.084057	-1.42899	-5.31015	
Styrene 5	-0.24058	-0.20869	-0.97681	0.251218	0.176811	0.249268	-0.24057	0.263763	-0.32463	-0.056797	0.01738	0.878265	-0.89856	-0.59073	0.03767	3.536227	-2.28696	-0.00508	0.40579	-0.52174	-0.13623	0.710144	-1.21449	-10.2058	-0.08986	-1.49855	-6.9913	
Acetone 1	-0.21449	-0.37391	-0.27536	0.431885	0.052174	-0.30435	0.002899	-0.168111	0.681168	-0.1884	1.002899	0.107239	0.281158	0.32753	-0.14493	2.768112	0.365219	0	0.043488	0.910141	-0.0087	0.02029	-0.35652	0.147827	0.127535	-1.05507	-0.37681	
Acetone 2	-0.0058	-0.17681	-0.27536	0.17392	-0.124064	0.933334	-0.75652	-0.63478	0.73912	-0.48116	0.640579	0.168106	-0.08986	0.27536	0	0.611603												

	R1	G1	B1	R2	G2	B2	R3	G3	B3	R4	G4	B4	R5	G5	B5	R6	G6	B6	R7	G7	B7	R8	G8	B8	R9	G9	B9		
Benzene 1	-0.63188	-0.16232	0.255073	-1.63189	-0.68696	0.139131	-1.06667	-0.38551	-0.04348	-0.91594	-0.66957	-0.09275	-0.64058	-0.23188	-0.4058	-0.07536	0.118841	0.710145	0.707246	-0.5942	-1.90726	0.768112	-8.0029	-4.45507	17.23768	9.536232	-46.9101		
Benzene 2	-0.54492	0.176811	0.130435	-0.65508	-0.69856	-0.89565	-0.25508	-0.2058	-0.9855	0.066666	-0.45218	0.831882	1.315933	0.559425	0.910145	0.05217	0.533333	0.510145	-0.14493	-0.8087	-1.35942	1.77681	-10.7275	-2.88116	14.87826	8.944927	-42.5449		
Benzene 3	-2.55942	-2.61449	0.2104493	-5.25507	-4.85507	-4.12464	-5.87537	-4.64348	-4.65507	-5.45508	-4.6	-1.37971	-4.84058	-3.53623	-0.91304	-3.77102	-2.88116	0.527536	0.031884	-0.89565	-3.14783	-0.0058	-14.8087	-4.04348	18.53333	11	-49.4435		
Benzene 4	0.301453	-0.20869	-0.88696	-0.16232	-0.43768	-0.64058	-0.66377	-0.29276	1.733337	-0.0029	-0.15653	-0.86377	-0.49275	-0.4029	-0.54493	-0.10174	-0.24348	-0.55362	0.353623	-0.84638	-2.35362	2.762314	-15.0087	-3.26377	14.64637	7.78261	-44.3391		
Benzene 5	1.278267	1.634781	4.368118	-1.10436	-0.91884	-1.30145	-0.87537	-0.91884	-1.01449	-0.71014	-0.10145	-0.4058	-0.38551	-0.74493	0.353622	-0.97102	-0.83188	1.031884	0.402899	-0.73333	3.33623	1.344925	-11.6812	-3.84058	16.84636	9.988407	-45.6667		
Toluene 1	-1.92174	-0.26957	0.023188	-2.38841	-0.57971	-0.23188	-2.42899	-1.2087	-0.38551	-2.32754	-0.02899	0.837681	-0.86667	0.121738	1.452174	-0.6087	0.14783	0.33913	0.794203	-1.2029	-9.6145	3.631882	-38.2522	-2.14493	37.02319	19.47246	-84.8232		
Toluene 2	-0.35942	0.623192	0	0.828979	0.513039	2.118835	-0.44638	0.304344	0.113037	0.623184	-0.09855	0.269566	0.96521	0.90435	0.759422	1.18261	-0.10725	1.15942	0.052174	-1.86087	-6.55362	3.388412	-27.2812	-4.71594	34.05797	17.92174	-83.4667		
Toluene 3	-0.510105	-1.48116	-0.76232	-0.20179	-1.72753	-1.58551	-3.93623	-3.16182	-2.83768	-3.83188	-3.68116	-2.97102	-3.62029	-3.27247	-1.93913	-1.93333	-0.94493	0.231886	-0.237681	-0.75652	-5.71884	3.330429	-24.3304	-6.17102	44.33913	27.98261	-88.4638		
Toluene 4	-1.61739	-0.97102	-0.0029	0.579712	0.255074	0.878262	-0.1797	0.727539	0.701447	-0.3105	0.43768	0.333332	-0.36812	-0.54492	-0.06667	-1.46087	0.70435	0	0.237681	-1.25507	0.67981	3.426086	-26.6607	9.31594	49.07536	32.37391	-94.1217		
Toluene 5	0.344925	2.588402	1.518841	0.608704	0.260872	1.110146	-0.54494	0.286957	-0.1855	0.371017	0.736229	0.930431	0.011597	0.846375	1.220287	1.713912	0.162515	0.113043	0.513043	0.137971	-7.15073	3.776825	-29.2222	-4.93913	34.64638	18.46087	-83.0493		
HCHO 1	-1.2029	0.344929	1.788406	0.623199	-0.42319	1.324638	0.405792	0.310143	-0.30145	0.359421	0.321739	0.82029	-0.15071	-0.03188	-1.28696	-0.19421	-0.04638	0.194203	3.750725	-3.58841	-47.971	6.950729	-96.2609	-11.7913	103.8725	113.8522	-59.0928		
HCHO 2	-1.12463	1.028984	1.405797	-0.08116	-0.26088	-0.25217	0.443481	-0.29855	0.359421	0.733337	-0.23479	0.034782	-0.96523	0.666664	-1.26667	-0.11305	0.05217	-1.942	3.657971	-4.01739	43.2899	6.002899	-91.7507	-16.142	102.944	111.5072	-54.6174		
HCHO 3	-1.45797	1.344925	0.588406	0.066666	-0.09276	0.823189	0.631897	0.373905	1.313049	0.162323	0.104347	0.80003	-0.84058	0.180461	-0.489857	-0.06377	0.408691	-0.14943	3.127536	-2.44928	-53.0116	5.176804	-89.7449	-3.96812	103.2348	113.9333	-55.5015		
HCHO 4	-1.33623	1.130432	1.97971	0.27536	0.063766	-0.18551	0.205811	-0.11015	-0.17102	-0.02608	0.020287	0.559422	-0.53912	-0.18261	-1.74203	0.663765	0.62899	-0.15073	3.701449	-3.77102	-42.8232	6.231888	-93.2406	-13.7507	103.1449	112.4261	-57.7362		
HCHO 5	-1.53334	0.86377	1.547827	0.756516	-1.02028	-0.40869	0.86377	0.002899	0.043472	0.452164	-0.43478	0.715939	-1.25798	0.924637	-1.20435	-0.18551	-0.29565	-0.11884	3.994203	-3.93623	-44.287	7.037674	-96.02322	-14.6058	106.6607	115.1884	-58.9652		
1,1,1Tchloroethane 1	-0.23189	0.771019	-0.09855	1.350739	1.478256	1	1.724625	1.414497	1.246376	-1.08986	-1.66078	-1.10145	1.304344	1.081158	0.568115	-0.86377	-1.16812	-0.02609	0.057971	-0.61159	-0.68405	2.026093	-3.75073	5.13044	5.414494	1.684057	-13.4319		
1,1,1Tchloroethane 2	0.017395	0.484062	-1.23768	-0.40581	0.092758	-0.37681	0.640579	-0.15363	-0.102319	-0.30434	-0.13913	0.121736	0.031883	0.623181	0.646376	-0.55362	-0.64058	0.078261	-0.10725	-0.86087	-1.64638	0.91304	-3.40861	-1.93913	4.86087	2.03438	-12.1102		
1,1,1Tchloroethane 3	-0.74204	2.834785	3.344928	-0.78841	-0.34493	-2.34782	-0.43189	-0.68696	-1.85508	-0.68695	0.649277	-0.2058	0.388405	1.104347	1.29855	0.05217	0.269569	-0.48406	-0.06957	-1.49565	-2.70435	0.144928	-1.26376	-4.70406	4.443478	1.718842	-12.1623		
1,1,1Tchloroethane 4	0.423195	-0.50435	-0.03188	0.336227	1.156522	1.563217	-0.51059	0.41449	-0.13333	0.008698	-0.44347	-0.22319	-0.06957	0.208296	0.826088	-0.12463	0.631882	0.156522	-0.10449	-1.76812	-1.46088	0.834778	-2.34782	3.698551	1.304348	-10.3449			
1,1,1Tchloroethane 5	-0.4145	1.376816	-0.14943	0.107254	0.814491	-0.20869	-0.25798	0.872467	-1.89276	0.663773	-0.23479	-0.53623	-0.10725	0.078262	0.246376	-1.95942	-0.09855	0.63478	0.353623	-0.29855	-1.51595	-0.07246	-3.18261	4.107246	5.739714	-11.5159			
p-Xylene 1	0.74202	2.05217	1.362319	1.394196	-5.33044	-9.95363	-1.8174	-1.95651	-3.35362	-1.14203	1.017387	0.886955	-1.76811	-0.35362	-0.02609	-1.88985	-0.78262	0.194202	0.527536	-2.43768	-11.5478	3.971008	-32.1449	-17.7072	81.15942	60.72464	-104.403		
p-Xylene 2	0.339134	1.162315	0.055073	3.03479	2.420296	4.107246	1.266663	0.602898	1.295654	0.634781	0.472466	0.29855	0.046371	0.652176	-0.50435	-0.33044	0.321739	-0.09565	0.594203	-1.77971	-10.5768	3.924637	-32.0464	-14.6464	73.0145	52.92174	-100.571		
p-Xylene 3	-0.63478	0.484055	1.217391	0.466675	1.10144	0.194206	0.191299	0.704346	3.150726	-0.58261	0.414497	-0.02319	-0.95073	-0.33913	-0.62899	-0.11594	-0.18841	-0.13623	0.1046377	-1.89855	-8.53912	4.997101	-29.8638	-13.7246	74.74204	53.28696	-99.3652		
p-Xylene 4	-1.02898	0.852173	-0.06377	0.434784	-0.92174	-0.30145	-0.11885	0.272461	0.417389	-0.61449	-0.14783	-0.530433	0.379715	3.278259	3.994202	-0.64058	-0.126667	0.707246	-1.31594	0.90279	-6.052079	-3.16667	-30.0279	70.6058	50.74783	-99.3246			
p-Xylene 5	-0.92754	0.469559	0.318841	-0.54492	-1.02898	-1.18261	-0.31595	-0.09276	-1.59999	-0.45216	-0.17101	-0.31884	0.652176	0.005798	0.55072	1.678261	0.373913	-0.243478	-1.86957	-11.0928	4.489853	-26.2609	55.22029	-93.4145	-48.1739	-53.9884			
p-dichlorobenzene T1	-1.67246	0.640579	0.408695	1.33331	-0.43189	-1.03189	-0.0087	0.515938	1.217392	-0.24927	-0.14023	-0.32754	-1.56812	0.440582	-0.46438	-0.47537	0.513046	0.069565	0.26087	-0.8087	-5.84058	0.539124	-4.53333	-4.90725	15.48116	8.217392	-35.9884		
p-dichlorobenzene T2	-1.89276	0.768116	0.892755	-1.626088	-1.26088	-0.31595	-0.34393	-0.24348	-1.492752	-1.01612	-1.65218	-0.84927	-1.1305	-0.165218	-0.10725	-0.630725	-1.57681	-1.20001	-0.18551	0.13913	-0.71304	-4.11014	-1.44058	-3.91304	-4.6	17.36812	10.02029	-40.7072	
p-dichlorobenzene T3	-1.93333	0.484058	0.286957	-0.25218	-0.6174	-0.72464	-0.48695	0.469566	0.739136	-0.60001	-0.61739	-0.68408	-0.96233	-0.68695	-4.79421	-0.13913	0.571014	-0.41449	0.336232	-1.30435	-6.92174	-0.57101	-5.74204	6.47826	14.64638	8.657974	-39.1594		
p-dichlorobenzene T4	-1.6087	0.388409	-0.10145	0.205795	0.031891	-0.93044	-0.71884	0.631882	1.292755	-0.75362	-0.1971	-0.14783	-0.43478	-0.49275	-0.5797	-0.10116	0.063774	-1.27826	0.182609	-1.14203	-5.84927	0.240585	-3.58841	10.6116	5.594204	-30.1304			
p-dichlorobenzene T5	-1.13623	0.257973	0.434784	-0.30725	-0.10725	-0.97682	-0.40289	0.281386	0.197390	-0.28116	-0.82319	0.199997	-0.12753	-0.9884	0.846382	-0.55652	-0.05797	0.076821	-1.3942	-2.57681	-0.05797	-4.48695	-4.81739	12.11884	6.310146	-30.2841			
Limonene T1	-1.39131	0.921738	0.513043	-0.24637	0.25798	0.32753	-0.43478	0.94783	-0.21449	-0.16522	0.10434	-0.09855	1.298546	-0.49275	-0.49275	-0.0087	-0.21449	-1.95652	-0.35652	-0.08986	0.382609	-0.57971	-1.11884	1.507248	-5.08696	-9.64638	31.83189	21.26667	-63.3275
Limonene T2	-1.21449	0.075363	-0.04638	0.089844	-0.87827	-1.29276	-0.2029	0.21449																					

	R10	G10	B10	R11	G11	B11	R12	G12	B12	R13	G13	B13	R14	G14	B14	R15	G15	B15	R16	G16	B16	R17	G17	B17	R18	G18	B18			
Benzene 1	0.069565	1.620291	-11.4667	36.74493	17.65797	-37.7015	2.956528	0.837677	-1.30725	3.185501	2.614502	0.62899	10.42899	21.6232	-3.17391	0.492753	-1.4	-3.22319	0.892754	-2.52464	-3.81448	0.092758	0.898544	-1.50145	0.26088	-0.94493	-0.81739			
Benzene 2	0.046377	1.799999	-10.1623	35.51884	16.31014	-38.2667	2.759415	0.072464	-1.2029	3.643478	2.884048	-1.23478	10.08984	20.22029	-3.6116	0.713043	-1.79131	-2.90724	1.704348	-2.23479	-2.55072	1.26088	-0.96521	-1.03188	0.785507	0.515945	2.046371			
Benzene 3	0.524638	2.373913	-12.2087	38.47826	15.89855	-40.3362	1.823196	-0.72463	-2.11884	2.13913	0.94783	-1.28986	11.8145	23.72174	-5.19131	0.362318	-2.13913	-2.71304	1.84638	-4.34782	-4.23488	-1.73044	-4.17682	-2.84638	-0.28405	-1.084061	-0.90436	0.614502	0.884064	1.011597
Benzene 4	0.023188	1.675362	-10.0551	35.28896	15.59711	-32.8493	3.60289	1.49855	-1.25507	5.788406	4.924637	-1.16232	13.13913	27.22609	-3.70725	0.695652	-1.53044	-1.08116	1.49855	-2.02609	-2.70725	0.286957	0.084061	-0.90436	0.614502	0.884064	1.011597			
Benzene 5	-0.07536	1.411592	-10.2261	32.30724	15.25797	-33.3681	3.10434	1.168106	-0.61739	4.197098	4.228899	-1.80861	11.09276	22.08405	-4.06957	-0.16232	-1.17971	-2.63478	0.953623	-2.1826	3.38841	0.101456	-0.05797	1.298553	0.475357	1.1884	0.495651			
Toluene 1	0.249275	4.660868	-38.513	64.89275	38.2	-79.3826	4.144928	1.794205	-1.0087	8.118835	7.782608	-0.64638	22.71014	47.78551	-5.82319	0.550724	-3.45217	-8.62898	1.043478	-5.96232	-11.6783	0.710144	0.457962	-1.67246	-0.26666	-0.75942	-0.92174			
Toluene 2	0.368116	3.988405	-37.1652	60.44058	37.04058	-76.1855	5.202896	2.049286	-0.53333	8.715942	7.640579	-0.02029	24.54492	49.80869	-5.11884	1.533333	-1.85217	-8.53624	0.585507	-4.84927	-8.79131	0.898544	-0.38261	-0.49565	1.678268	2.289848	1.220291			
Toluene 3	0.188404	4.539129	-33.797	74.14783	34.16522	-66.1362	6.550735	3.321747	-0.8116	10.84058	9.33344	-1.91303	26.43768	54.26088	-5.05507	1.257971	-2.24928	-5.35652	1.672464	-3.71884	-4.9884	1.324646	1.182602	0.46376	1.556519	1.388405	0.113045			
Toluene 4	0.011594	4.121738	-32.2406	57.97391	33.09855	-76.3913	6.46376	3.41449	-1.2058	11.57971	8.843475	-4.29276	23.90726	49.14943	-5.29855	1.330435	-1.68696	-6.6087	0.568116	-4.11594	-8.13913	0.194199	0.168121	-1.75072	0.89856	-1.17681	-1.73044			
Toluene 5	0.336223	4.028896	-37.3188	60.61449	37.09725	-75.6319	5.342026	1.823181	-1.76812	8.034775	24.35942	49.69855	-5.12464	1.507246	-1.84927	-8.55652	0.727536	-4.77791	-8.79421	0.892746	-1.0116	2.043488	1.362632	0.475365						
HCHO 1	166.9449	105.5942	-125.606	110.3797	42.15073	-26.5304	2.275375	-1.23189	-1.96812	2.460876	1.907242	0.791306	18.76811	26.71304	-6.54203	6.147825	1.771011	-23.313	36.52754	8.918839	-21.1942	1.657974	-0.06087	-1.01738	1.150726	-0.38551	-0.18261			
HCHO 2	157.2493	109.2725	-125.351	110.5536	43.11885	-25.2145	2.134787	-0.41739	-1.97971	1.895645	1.669556	0.304782	17.46086	26.9884	-6.0029	4.246379	1.504349	-20.3971	31.93623	9.208694	-22.3971	1.005798	0.834778	-0.08696	1.289856	-0.06377	-0.23188			
HCHO 3	166.5507	105.6957	-117.713	118.1739	46.1942	-27.5362	5.159424	-0.89552	-1.25797	1.01738	1.782608	1.675362	19.17102	26.68405	-5.7913	6.555073	1.81739	-20.9333	37.47826	11.23477	-24.5563	1.573914	0.802887	0.27536	-0.25507	-0.97102	-0.3942			
HCHO 4	158.2261	105.2174	-120.243	110.6145	42.6058	-26.8261	1.82608	-0.83478	-1.76232	2.510147	1.356522	0.68985	18.45798	28.04349	-6.3971	5.463768	1.582603	-19.313	31.89855	8.072464	-20.0493	1.353638	0.049271	-0.43189	0.423187	-0.47247	0.301449			
HCHO 5	164.1102	113.3623	-128.557	121.4609	48.06957	-31.229	2.368103	-0.75942	-2.73623	2.643478	2.623184	2.240582	20.56812	30.40289	-6.41159	5.988405	1.657974	-21.9362	36.17973	8.55072	-20.6432	1.869568	1.176819	-0.59421	1.214493	-0.76231	-0.43768			
1,1,1Tchloroethane 1	0	0.736233	-2.59995	5.507246	2.715942	-14.0493	4.060861	0.866669	-2.49275	2.826096	2.307251	-1.14783	6.41449	9.80003	-3.14493	0.405797	-0.740203	-1.42609	0.330435	-0.88985	-1.17392	0.30769	0.637695	-0.23477	1.194199	0.394196	0.892754			
1,1,1Tchloroethane 2	0	-0.1971	0.495651	4.391304	0.869568	-12.0812	1.626083	-0.13913	-1.84058	1.771011	2.063766	-1.53334	2.43798	7.094343	-2.38261	0.646377	-0.76812	-1.67537	0.646377	-1.33334	-0.88404	-0.55362	-0.64058	0.878265	0.084061	1.188416	0.249278			
1,1,1Tchloroethane 3	0.014493	0.744928	-1.50145	4.011594	1.646378	-10.5594	3.492752	0.666672	-1.44638	0.226089	1.318832	-1.31304	3.344925	7.953629	-2.64348	0.666668	0.046379	-0.97682	-0.03478	-1.93044	-2.33044	0.750717	-0.52174	0.84055	1.414505	0.5942				
1,1,1Tchloroethane 4	0.063768	0.68116	0.014496	4.075362	1.495651	-9.37102	1.492752	-0.25217	-1.51884	2.237671	0.936234	-1.83851	6.530441	5.523333	-2.17392	-0.19855	-1.65508	0.95652	-1.12575	0.23479	0.208694	-0.13623	0.162308	-0.21739	-0.26086	-0.42319				
1,1,1Tchloroethane 5	-0.01739	0.5655216	-0.33044	0.866667	2.17392	-10.7855	1	0.889847	-2.0029	1.684052	2.321747	-1.98531	3.739136	8.457977	-2.64927	0.194202	-0.68696	0.008698	0.06087	-1.69856	-0.14203	0.623184	1.266678	0.110153	2.133331	1.269577				
p-Xylene 1	3.037681	14.51594	-65.5333	107.0696	46.7942	-83.1942	2.063766	0.797104	-0.46087	4.944931	5.544922	0.124634	18.77681	41.32173	-5.09566	1.982608	-2.14203	-10.6522	3.26087	-5.90144	-9.6087	-1.05217	-1.3942	-2.46378	-1.76233	-1.73044	-0.21449			
p-Xylene 2	0.031884	8.252174	-52.7362	99.20001	44.94203	-78.8116	3.617401	2.547821	-0.547827	4.371017	4.947815	-0.94783	20.63768	44.27536	-4.25798	1.565217	-1.72174	-6.8174	3.252174	-5.72464	-7.28116	-1.07536	-1.10725	-1.22319	0.631882	1.542038	1.698547			
p-Xylene 3	1.672464	11.48695	-55.0493	101.4232	44.97392	-78.4956	3.237686	2.60289	0.804059	5.559418	5.1884	0.521736	21.81738	44.97681	-6.64638	2.614493	-1.00579	-7.50725	4.08895	-5.54783	-7.76521	1.428986	-0.23479	0.698547	0.921738	0.130432	0.634781			
p-Xylene 4	0.33913	10.53044	-56.942	56.942	109.5594	50.69856	-86.6406	5.240585	0.3049271	-0.26956	4.852173	5.09857	0.363811	21.50145	43.22609	-4.23188	2.397101	-1.86087	6.75073	3.872464	-6.17681	8.12465	1.736237	0.417389	-1.1739	0.979706	-0.24348	0.660873		
p-Xylene 5	1.243478	10.43768	-55.2232	98.69856	46.50435	-79.4435	3.324631	3.588394	-1.02319	5.63768	4.692749	-1.05942	20.36812	42.43189	-3.54837	1.724637	-1.84597	-0.10594	5.23188	-8.68695	0.317391	-0.542638	-1.23189	-1.3826	1.185501	0.713043	0.588409			
p-dichlorobenzene T1	-0.06957	-1.68116	-15.7391	23.88515	10.14203	-41.3971	-0.98262	-1.464638	5.110146	2.518738	3.731073	-1.87179	15.5826	26.43638	-2.12449	0.055797	-0.6	-6.8203	0.902754	-1.85507	-5.11035	-0.0058	0.779709	-2.09854	-0.55652	0.785507	2.202896			
p-dichlorobenzene T2	0.110343	-1.28161	-20.3942	16.59711	16.57591	-39.6058	-0.95073	-2.27246	3.808693	5.191299	4.533325	-2.04058	1.53912	14.89275	0.202896	0.081159	-0.65797	-11.4558	0.052174	-1.16811	-7.69275	0.347824	-0.71034	-0.62318	-1.95365	1.707225	3.85218			
p-dichlorobenzene T3	-0.25217	-3.0219	-13.2696	27.56232	12.70435	-46.342	-0.43189	0.614487	3.82029	3.118835	3.034775	3.622085	22.90434	25.39131	5.200001	0.011594	-0.58551	-9.8174	0	-1.93333	6.89854	0.472458	-0.25798	0.646378	-0.97102	0.762314	4.562321			
p-dichlorobenzene T4	-0.13333	-2.52174	-10.7072	18.08406	7.68116	-35.9855	-2.1046	-1.3855	6.365215	4.823196	3.686951	-2.08406	21.0174	4.13913	-0.0029	-1.23188	-4.88986	-0.0058	-0.204638	-3.08694	0.297255	0.194190	0.997101	-1.34782	0.10565	3.510147				
p-dichlorobenzene T5	-0.14493	-3.1884	-10.6522	14.02609	6.416494	-28.9623	0.060867	0.049271	-2.150726	1.042178	1.82897	-2.66666	9.831886	9.571014	-1.51014	-0.02029	-1.24348	0.367827	-3	-1.61811	-3.58841	0.115952	0.046371	-1.04347	-1.30767	1.631882	3.11594			
Limonene T1	0.327536	0.060867	-20.5246	34.29276	15.79421	-59.713																								

	R19	G19	B19	R20	G20	B20	R21	G21	B21	R22	G22	B22	R23	G23	B23	R24	G24	B24	R25	G25	B25	R26	G26	B26	R27	G27	B27	
Benzene 1	1.666664	0.811594	-0.51305	-0.76231	-0.2	-0.03189	-0.05797	-0.05217	1.269562	-0.42029	-0.8	0.623188	0.191299	0.130436	-0.71884	0.55072	-1.0087	-0.03478	-0.34493	-0.26667	0.866667	-0.23769	1.472458	0.486954	0.173904	-0.06667	-0.45506	
Benzene 2	1.18261	-0.397102	-0.43478	-0.47826	-0.55943	-0.48696	0.107239	0.072464	0.979706	-0.59421	-0.44927	0.507248	0.72464	0.45797	-0.5971	-0.64638	-0.47247	-0.33623	-0.55653	-0.76811	-1.13623	-0.74492	1.50145	1.565224	0.226089	-1.24059	-2.15073	
Benzene 3	2.228981	1.092754	-0.71884	-1.87247	-1.57101	-0.84058	-2.21449	-1.24057	2.356522	-0.68405	-0.56522	-1.45797	-1.44637	-1.11594	-1.86667	-1.33334	-2.69855	-1.58261	-1.40581	-1.73333	-0.97025	-1.53044	0.933334	-1.68985	-0.75363	-0.34782		
Benzene 4	1.008698	0.072464	-0.22608	-0.46957	-0.10725	0.173912	-0.76813	0.446381	2.857971	0.026093	-0.40289	-1.68985	0.197113	0.269562	-0.11015	-0.33913	0.231888	-0.64058	-0.03767	-0.3855	-0.47536	0.110153	2.098541	1.707253	-0.3797	0.208694	-0.20869	
Benzene 5	1.649277	0.460869	-0.98261	-0.22609	-0.62898	-0.49566	-0.76231	0.959412	3.153625	0.559433	-0.55942	-1	0.869568	1.689857	1.31884	-0.46956	-0.12463	-0.51884	0.568115	-0.4087	-1.4029	0.634781	1.939133	2.202896	-0.25798	0.721725	0.315933	
Toluene 1	0.669563	-0.8058	-1.42899	1.544937	1.026093	-0.49855	-0.44348	-0.36812	7.052185	0.237686	-1.0116	-1.08986	0.324646	0.959423	0.002897	-0.42029	-1.16812	0.002899	-0.64058	-0.27536	-0.01159	-0.97971	5.336227	1.440578	-0.6145	-1.53044	0.597092	
Toluene 2	1.402901	0.243478	0.605797	2.553619	0.663773	-0.48116	-0.48987	-0.04639	4.594208	0.730438	0.008698	-0.43189	0.234787	0.237686	0.124638	0.484055	-0.67825	0.385508	0.101456	-0.2029	-0.21449	0.817398	3.913048	1.336235	-0.54202	0.043488	-0.52464	
Toluene 3	0.327538	-0.17681	-0.72754	1.220291	-0.257965	-0.21739	-0.31595	0.559418	3.930435	0.376816	0.475372	-0.45217	1.104355	0.197098	0.484058	0.927536	0.173904	-0.95652	0.75943	-0.13913	0.533334	0.46376	3.382614	2.698555	-0.32173	-0.14203	-0.29855	
Toluene 4	0.646378	-0.76812	-1.47537	0.910141	0.28992	-1.56812	-0.59419	0.89856	4.037674	0.098557	-0.35362	-0.74783	-0.2029	0.05217	0.33044	0.428986	-0.25507	0.153624	0.226089	0.046379	0.814493	0.64638	2.510147	-0.15072	-0.84927	0.22029	-0.26667	
Toluene 5	3.599998	2.37971	2.141497	2.556519	0.631882	-0.41449	-0.31303	0.115952	4.808701	0.553619	-0.27536	-0.90145	0.49855	-0.04928	-0.03189	0.686951	-0.48985	0.315942	-0.21159	-0.0174	0.214493	0.753632	3.917238	1.460873	-0.62602	-0.02319	-0.60001	
HCHO 1	0.008699	-0.17391	0.382607	12.49565	3.255081	-3.49276	1.011597	-0.1913	-0.24057	0.600006	-0.50145	-0.13913	0.26088	-0.10435	-0.84348	0.443481	-1.47246	-0.62029	0.394196	0.09565	-0.40209	0.391312	-0.65507	-0.50435	0.788406	0.220291	-1.06667	
HCHO 2	-0.23478	-0.10725	0.046379	11.73044	3.32753	-3.8087	0.153625	-0.48116	2.13913	0.74202	0.269577	0.310402	-0.1913	-0.28406	0.286957	0.518845	-0.08696	0.11116	0.307236	-0.31594	0.49565	0.046387	-0.44928	-0.04348	0.344925	-0.3971	0.382614	
HCHO 3	-0.58261	0.034782	-0.50145	14.55652	4.582611	-2.42219	0.46376	-0.3855	2.275368	0.257965	0.608688	-0.17391	-0.53043	-0.74203	0.321747	0.55652	0.397101	-0.9913	-0.45218	-0.89565	-0.30725	-1.98261	1.94493	0.828995	0.802902	0.475357		
HCHO 4	0.03479	-0.0116	0.211594	11.26086	3.113037	-2.43768	0.257965	-0.35072	1.446381	-0.21159	-0.33043	0.927536	0.53624	-0.4203	0.205795	0.060883	0.089859	-1.17391	-0.11885	-0.78261	0.478261	0.098541	-0.8	0.394203	0.736221	-0.47536	-0.06087	
HCHO 5	0.055073	-0.42319	0.802902	11.06667	3.368118	-2.5971	0.968109	-0.0058	1.695648	0.626083	0.562317	-0.8	0.455078	0.110146	-0.05972	0.889847	-0.15363	0.084058	0.017395	-0.0029	0.472464	-0.3632	-0.6087	-0.31594	0.800003	-0.07826	-0.02898	
1,1,1T chloroethane 1	2.11594	0.310144	-1.22898	-0.15073	0.73912	-0.53623	0.96521	0.86087	3.22319	0.788406	0.907257	-0.36522	0.266663	0.794197	0.162317	0.547836	0.365219	-0.8696	0.252182	0.388405	-0.388405	-0.10725	0.747818	5.437683	1.214493	0.376801	-0.6232	-0.10896
1,1,1T chloroethane 2	1.353622	0.101449	-0.5826	-1.40581	-0.92754	-0.06667	-0.04927	0.605789	1.678253	-0.90724	0.330444	-0.11305	-0.46666	0.176811	0.49855	-0.75362	0.90144	0.182609	-0.67247	0.156525	-0.06087	0.843475	0.295654	2.469563	-0.88985	0.72173	-0.62029	
1,1,1T chloroethane 3	3.153623	2.747826	0.428986	-1.28986	-0.72174	0.02319	-0.37392	0.023193	3.852173	0.388397	0.104355	-1.04638	0.08696	0.95652	0.011597	0.226089	-0.05798	-0.09855	-1.45218	-2.68696	-0.427826	-0.77391	4.34494	0.759418	-0.42319	-0.15941	-1.34493	
1,1,1T chloroethane 4	2.127537	0.208696	-0.8116	0.014496	-0.24348	-0.4	0.434784	-0.28116	2.31888	-0.12463	-1.0087	0.257969	0.005783	0.092751	-0.52464	0.002897	0.70726	-0.62899	0.730438	-0.78551	0.38551	0.342026	5.1884	1.391304	0.614502	-0.0058	0.165222	
1,1,1T chloroethane 5	1.930435	0.408695	0.037682	-1.12753	0.226074	-0.76522	-0.17102	0.86377	3.800003	0.727522	0.28696	0.620289	0.057968	0.342026	-0.3632	-0.83479	1.066666	-0.63188	0.48985	0.1272461	-0.4029	-0.14783	5.376801	0.2101597	-0.60869	0.127548	0.101456	
p-Xylene 1	0.023193	-0.73043	-1.2058	0.753616	-0.59421	-1.02319	-0.204057	-1.46086	1.884048	-2.36812	-1.8145	-0.88696	-1.6348	-0.66956	-0.37101	-1.79131	-1.77681	-1.04928	-0.90434	0.35363	0.034782	-1.65797	0.034775	1.747833	-2.44348	-1.71392	-1.50435	
p-Xylene 2	0.157912	0.484058	-0.18551	3.805786	0.611603	-1.57971	-0.68407	-4.36522	-2.94493	-0.46957	-0.33334	-0.2	-0.49855	-0.27536	-0.94203	-0.30725	-0.51015	-0.33333	0.089859	-0.01738	-0.103188	0.994202	1.17971	-0.68697	-0.04637	-0.70145		
p-Xylene 3	0.620293	0.147827	0.281158	3.298553	0.8116	-1.23188	-0.73624	0.63768	2.582611	-0.56812	0.06666	-0.70145	0.011597	-0.25217	0.50453	0.50145	0.50725	0.55942	0.29855	0.373917	0.284058	-0.26088	0.153325	0.069565	0.31595	0.124634	-0.55362	
p-Xylene 4	1.075363	-0.15942	0.075356	5.217392	1.562317	-0.70435	0.075363	0.701447	4.507248	0.373901	0.301453	-0.24058	0.202896	0.231888	-0.11305	0.484055	-0.73914	0.156522	-0.105219	-1.22899	-0.257977	0.313701	2.130432	0.211594	0.050569	-0.35652		
p-Xylene 5	0.707245	-0.17102	-1.15653	3.014496	1.817398	-0.28986	0.260693	-0.24928	2.081161	0.576813	-0.76231	0.1547829	0.321732	1.379707	-0.07246	0.547977	0.246368	-0.06377	0.65218	-0.23479	-0.66957	0.05217	1.281158	1.060867	-0.08986	-0.42029	-0.8087	
p-dichlorobenzene T1	0.686958	0.768116	-0.00869	3.057968	-0.63478	-2.10145	0.333344	-0.9971	-1.63188	-0.67535	0.13913	-0.34993	0.095642	0.142029	0.095652	0.298538	-0.14638	0.411594	0.979706	-0.91014	-1.53623	0.168121	-0.81739	-0.10725	0.492752	-1.13333	-0.91304	
p-dichlorobenzene T2	-0.26956	0.785507	-0.10435	1.94931	0.286957	-0.80869	-0.90724	-0.32755	-1.65218	-0.60001	-0.8261	0.400002	-0.07536	0.124638	0.182609	-1.21739	2.21449	-0.22609	-0.09856	-0.31304	-1.08408	-0.143477	-0.12174	-0.42029	-0.73334	-0.86869		
p-dichlorobenzene T3	0.617393	0.631884	-0.08116	1.295654	0.055084	-1.97971	-0.76521	0.469559	-1.0087	-0.86377	-0.62029	-1.9942	-0.40507	-0.02029	-0.1913	-0.90724	-0.90146	-1.4058	-0.37682	-0.49275	-1.55362	-0.31595	0.110146	0.617392	-0.50725	-0.39711		
p-dichlorobenzene T4	0.304344	0.75942	-0.32174	-0.59131	-0.40869	0.61739	-0.25797	-0.24347	1.110138	-0.58261	-0.13074	-0.34785	0.055069	0.092754	0.17014	-0.39421	-1.28986	-1.77391	-0.20318	-0.37391	-0.20869	-0.1034	-0.12174	0.49855	-0.105797	-0.42319	-0.47246	
p-dichlorobenzene T5	1.649277	0.942028	-0.12754	-1.64928	-1.24928	-0.46087	-0.88985	0.399944	-0.25797	-0.26086	-1.13913	-1.13623	-0.59421	-0.26029	0.365217	-0.58841	-1.26666	-1.95363	0.368118	-1.15942	-0.87368	-0.68696	0.779711	-0.50435	0.84638	-0.1971		
Limonene T1	0.04348	0.779711	0.226089	-0.25218	-0.16521	-0.06667	-1.11884	0.86087	0.797104	-0.48406	-0.78551	-0.637382	0.246377	-0.03188	0.197098	-0.127536	0.2446375	0.002899	-1.32464	-0.59131	-0.36522	-1.2058	-0.21739	0.026085	-0.04058	-0.19711	-0.56233	0.544937
Limonene T2	0.257973	0.649275	0.576813	-0.19																								

	R28	G28	B28	R29	G29	B29	R30	G30	B30	R31	G31	B31	R32	G32	B32	R33	G33	B33	R34	G34	B34	R35	G35	B35	R36	G36	B36	
Benzene 1	0.08696	-0.48116	-0.0145	-0.03479	0.397102	-1.74783	0.576813	-0.8261	-0.8208	-0.65216	0.156525	0.571014	-0.02028	-0.59421	0.069565	1.124634	-0.33043	0	-0.8029	-0.66666	-0.66667	0.17971	0.62029	-1.27536	-0.11884	0.33913	-0.32754	
Benzene 2	0.217392	0.011593	0.744926	0.576797	-0.47247	-1.59709	-0.26666	-1.16232	0.063766	-0.35652	-1.59131	-1.30507	-0.55072	-0.35362	-0.84638	1.324631	-0.25217	-0.4	-0.58841	-0.59999	-0.26667	0.069565	-0.07536	-0.91884	0.249275	-0.11594	-0.41159	
Benzene 3	-0.97102	-0.85218	-0.66087	-0.40579	-0.24638	-2.82028	-0.75363	-1.64928	-3.47827	-0.66957	-2.32463	-0.97102	-1.43189	-1.11885	-1.41159	-0.86087	-0.97681	0	-1.20001	-0.94492	-0.1971	0.133333	0.078261	-0.24928	-0.62609	-0.89273	-0.88696	
Benzene 4	0.327538	-0.15942	-0.13333	0.837677	0.27536	-0.18842	-0.09276	-0.12753	-0.17392	-0.3797	0.527542	1.113037	-0.1768	-0.23479	0.72464	0.51593	-0.97971	-0.1913	-0.84638	-0.09856	-0.02029	-0.2	0.124638	-0.13623	0.194203	0.188404	-0.16811	
Benzene 5	1.414497	1.54203	0.368114	-0.08696	0.121735	0.350723	0.08696	0.449265	-1.06377	0.962311	0.614502	-0.33913	0.881165	0.281158	0.324646	1.156509	0.197098	0	-0.43478	0.368118	2.823188	0.342029	0.434782	-0.38261	-0.04928	0.208698	-0.15362	
Toluene 1	-0.06667	-0.33044	-0.53623	-0.40871	-0.08116	-1.26378	-0.10436	-0.46956	0.257965	-0.8174	-0.11884	0.768112	-0.65507	-0.1826	0.27536	1.199997	-2.463378	0	-0.94783	0.023178	-0.06377	0.237681	0.182609	-2.26377	2.136232	0.206377	-1.38261	
Toluene 2	0.165218	0.289856	0.089855	0.449265	-0.03188	0.118835	0.08696	-0.32463	-1.33333	0.959412	0.823181	1.118835	0.910141	0.408707	1.026093	1.211594	-1.82898	0	-0.28406	0.153625	-0.14783	0.110145	0.121739	0.814493	0.559422	-2.45217		
Toluene 3	0.675362	0.884056	-0.63768	0.933334	0.101456	-0.09276	0.96525	0.23477	-1.84348	0.698563	0.704361	-0.84058	-0.03767	-0.21449	1.011456	0.678268	-0.61159	0	0.113037	1.811584	3.811594	0.04058	0.075362	-1.68116	0.70435	-2.23479		
Toluene 4	-0.17102	0.27247	-0.07536	0.179718	-0.11594	-1.18842	0.828995	0.489853	-0.10896	0.67535	-0.95363	-1.27246	-0.90726	-0.14493	-1.02029	0.049271	-3.1971	0	0.31015	0.96233	-0.49565	0.049275	-0.16232	1.73334	0.623188	0.559422	-2.5942	
Toluene 5	-0.19131	-0.16812	-0.23478	0.452179	-0.62029	-0.11304	1.150726	-0.32753	-1.25508	0.950729	0.405792	1.150726	0.846375	0.292755	0.466675	1.565216	-1.59771	0	0.057968	0.808685	-0.15652	0.536232	0.489855	-1.66087	0.849275	0.4433478	-0.248696	
HCHO 1	0.304348	0.005795	0.353622	0.252167	0.359421	-0.76523	0.420288	-1.42609	0.565216	-0.90436	-1.41739	-1.07246	0.246376	-0.97681	-0.1768	2.634781	-19.9333	0.17971	-0.03189	-0.47246	0.133333	0.802898	0.576813	-2.45217	0.130432	-0.82609	-1.18261	
HCHO 2	0.269566	-0.16812	0.698551	-0.31593	-0.25217	0.400009	-0.1971	-0.02319	-0.53044	-0.01738	0.37392	0.814499	0.020287	-0.3768	0.075363	2.472473	-18.6145	0	0.521744	-0.04637	-0.62319	0.65797	0.698551	-2.08115	1.147827	0.921738	-1.08406	
HCHO 3	-0.26957	-0.22609	-0.12754	-0.31593	-0.06957	-0.56233	0.156525	0.556519	0.571014	-0.14783	-0.26956	-0.84058	0.600006	0.281158	1.597107	1.333344	-22.5507	0.13913	-0.59421	0.918839	-0.12464	1.434784	0.106377	-2.12174	1.086956	0.611595	-0.45797	
HCHO 4	-0.06957	-0.21159	0.226089	-0.3971	-0.29855	0.307251	-0.15073	-0.36232	0.069565	0.220291	-1.33913	-0.28117	0.168121	-0.27246	0.588409	1.86377	-17.1131	0	-0.56233	-0.88986	-1	1.127537	0.68116	-1.19421	0.078262	-0.46377	-0.86957	
HCHO 5	-0.21739	-0.24928	0.657979	0.214493	0.376812	-0.34203	0.455063	-0.12755	-0.91014	-0.58841	-0.26668	1.315933	-0.36323	-0.10434	0.092743	3.976807	-21.4522	0.536232	-0.75072	0.197098	0.085507	0.739132	0.692753	-2.29276	1.814495	0.120575	-0.48116	
1,1,1Tchloroethane 1	-0.10145	-0.02898	0.950753	0.684052	0.736229	-0.69565	1.411591	-0.12463	0.289856	0.646378	0.597107	0.804061	0.492752	0.818161	-0.05507	1.843475	-0.59131	0	0.582611	1.234772	-0.28116	0.197102	0.127536	-0.26957	0.342029	-0.37681	-0.70573	
1,1,1Tchloroethane 2	-0.36322	-0.02898	0.078262	-0.03767	-0.38261	-1.10146	-0.42609	-0.51305	-0.12174	-0.43474	-0.77101	-0.629	-0.0029	0.075363	0.782608	0.081161	-0.42899	0	-1.31015	-0.08406	0.495651	-0.36812	0.162319	0.633765	-0.33044	0.327558	0.020287	
1,1,1Tchloroethane 3	1.168118	0.837681	-0.49565	-0.05217	1.411591	-0.71884	0.307251	-1.23189	-0.1855	-2.31014	-1.25218	-1.38551	0.084061	0.684052	-0.3681	-0.03479	-1.362323	0	-1.27826	0.014481	-1.85507	-0.02899	0.098551	0.107246	0.168116	-0.29275	-0.71884	
1,1,1Tchloroethane 4	-0.25217	0.020895	-0.48116	0.376801	-0.47537	-0.42319	-0.28406	-0.44927	0.765213	0.591427	-0.61159	0.014496	-0.30724	-0.28989	-0.41451	1.130432	-1.13333	0	-0.74202	-0.56233	0.1582609	0.063768	-0.3942	-0.34493	-0.0087	0.011593	-0.58551	
1,1,1Tchloroethane 5	0.95072	0.533333	-0.24928	0.762314	0.168114	0.199997	-0.55072	0.015798	0.463776	1.707245	1.50145	-0.24928	1.420288	0.571025	-0.547821	0.460088	0.686954	0.040573	-0.15942	-0.2058	0.162319	0.27536	-0.31015	-0.1884	-0.29276			
p-Xylene 1	-0.67826	-0.41159	-1.0087	-1.74202	-0.09855	-3.60289	-2.29276	-1.44928	-1.23187	-1.23477	-1.09566	-1.52464	-0.05217	-0.59131	0	-1.31015	-3.11304	0	-2.26086	-0.60291	0.098551	0.008696	0.30145	-3.83189	0.481159	0.04348	-5.11594	
p-Xylene 2	0.486954	0.698551	0.5942	0.417404	0.263771	-0.8087	-0.91594	-0.70104	-2.15073	0.408691	0.626083	0.41449	0.266663	-0.31883	0.15363	1.365219	-2.11884	0	-0.35942	-0.06377	0.223188	-0.10449	0.4433479	-2.2	1.266666	0.828983	-1.30145	
p-Xylene 3	0.113045	-0.15942	-0.08958	0.0449265	0.146205	0.631882	0.272461	-0.59709	-0.53334	-0.19132	0.20896	0.96521	-0.629	-0.35362	-0.75942	1.269562	-3.23189	0	0.423183	0.081161	-0.6087	-0.06087	-2.4	1.153624	1.414494	-3.0116		
p-Xylene 4	0.263771	-0.28116	-0.23188	0.930435	0.310104	-0.32175	0.626099	0.043472	-0.06957	-1.40001	0.205811	1.678253	0.2017395	1.889862	2.110138	-2.8058	0.026087	0.805786	-0.15653	0.4	0.585507	0.055073	-0.265797	1.449276	1.028988	-2.55072		
p-Xylene 5	-0.04058	-0.25217	0.194202	1.072464	0.472466	-1.52464	0.443481	0.492752	0.104355	-0.65508	-0.13623	-1.34203	0.13913	-0.45216	-0.60597	0.927536	-2.74782	0	-0.54784	-1.11594	0.246377	0.408696	0.15942	-0.20898	0.0991304	1.060871	-2.10435	
p-dichlorobenzene T1	-0.53913	-0.17971	-0.88985	-0.49275	0.185509	-1.22609	-0.129855	-0.38478	-0.60686	0.231888	-4.62318	-6.38551	-0.88117	-0.95363	-1.51015	1.046387	-0.88986	0.82898	0.202896	0.162057	0.445078	-0.209565	-13.7623	1.315941	-0.60888	-7.92463		
p-dichlorobenzene T2	-0.44348	-0.82899	-0.48695	-1.53043	0.023193	-0.70145	-0.94933	-0.150435	-0.1971	-0.9884	-0.490146	-0.507826	-2.13913	-0.86087	-0.207536	2.971024	-2.46666	-0.13623	1.24263	-0.16667	0.463768	1.559422	-1.64058	-15.084	1.579708	-2.8058	-12.1246	
p-dichlorobenzene T3	-0.58841	-0.51594	-1.14493	-0.27246	0.002899	0.13913	-0.22899	0.240585	0.234787	-1.31015	-3.94493	-4.29276	-1.64638	-0.47537	-0.87537	3.098557	0.86377	-0.04348	-1.3855	-0.6058	0.165217	0.313046	-3.37392	-15.8841	0.828983	-9.87825		
p-dichlorobenzene T4	-0.61159	-0.44058	-0.0087	0.64636	0.23188	0.095657	-0.13913	-0.30725	-0.43189	-1.70725	-5.64638	-5.54202	-1.79421	-1.71594	-2.12463	3.440582	2.162323	-1.28696	-1.79131	0.257965	0.211594	-0.51015	-2.10416	-11.6232	-0.30725	-3.18261	-9	
p-dichlorobenzene T5	-0.58841	-0.70435	-0.70435	0.104156	-0.81159	-1.47536	-0.92174	-0.36812	0.185516	-0.22899	-4.48406	-3.20581	-0.7971	-0.13067	-1.03767	1.08151	0.427536	0.886963	-1.46667	-1.71593	-0.98262	0.869596	-0.35072	-3.59131	-12.9217	-0.88955	-2.77971	-7.29725
Limonene T1	-0.44058	-0.30435	-0.33044	0.257965	-0.16522	0.168121	0.10434	0.205795	0.333344	0	1.539139	1.727539	-0.39131	-0.38841	-0.41161	3.39711	0.927536	-0.02899	-0.75362	0.336227	0.765217	0.055073	-2.29855	-11.8667	0.33913	-3.23754	-8.8029	
Limonene T2	-0.994	-0.31884	-0.44058	0.382614	0.307251	-1.28986	0.797104	0.226074	-1.9884	0.153625	-1.0058	-0.64058	-0.21161	-1.3855	-1.14783	4.110153	1.5681											

Table S2. Database for 20 VOCs at PEL and a control with pre-oxidation after five min exposure.

	R1	G1	B1	R2	G2	B2	R3	G3	B3	R4	G4	B4	R5	G5	B5	R6	G6	B6	R7	G7	B7	R8	G8	B8	R9	G9	B9	
Control 1	-0.67827	0.124634	0.257971	-0.07826	-0.82608	-1.46667	-0.22029	-0.31594	-0.95363	0.156525	0.304344	0.066666	-0.46376	-0.55072	-0.12754	-0.26667	0.023186	0.547827	0.104348	-0.27536	0.205795	0.44928	0.315933	-0.41449	0.371017	0.086952	-1.46088	
Control 2	-0.2029	0.373917	-0.10435	2.159409	3.617386	4.689857	2.05217	1.973915	2.50145	1.631882	0.550728	0.889854	1.657974	1.263771	1.652174	0.707245	1.794205	0.857971	0.101449	0.605797	0.394211	-0.25508	-1.13335	-0.64638	1.101448	0.359421	-1.16522	
Control 3	0.782608	0.478264	0.263768	0.110153	0.626083	-0.56522	0.043488	-0.08986	1.50145	0.339142	0.400002	-0.43478	-0.04347	0.489853	-0.25507	0.252174	-0.04058	-0.46377	-0.43189	-0.48116	-1.46376	0.156525	0.191299	0.614494	0.011597	-0.36322	0.298553	
Control 4	-0.22029	-0.17682	-0.4087	-0.41159	0.101448	-1.12464	-0.18262	-0.16522	-1.71304	0.078262	-0.30724	-0.44348	0.110138	-0.6029	-0.58261	-0.28116	0.014488	-0.45797	-0.04638	-0.44348	0.249268	0.055084	-0.90724	-1.0145	-0.52174	-0.14203	0.168121	
Control 5	-0.29276	-0.4	0.269563	0.22319	0.014488	-0.3971	-0.12755	-0.03478	-0.9971	0.008698	0.292755	-0.32464	-0.43768	-0.04348	-0.23478	0.663765	0.301453	-0.70145	-0.41449	-0.30725	1.379715	-0.13913	-0.57971	-1.18551	-0.85507	-0.26376	0.898544	
HCHO T1	0.342026	0.24058	0	0.640579	0.852173	1.130432	0.046387	0.507248	0.753624	-0.30725	0.156517	-0.02609	0.573914	0.556519	-0.10435	0.521739	0.349495	0.521739	0.01739	-0.63768	1.44928	0.660873	-4.69565	2.03189	7.36232	4.857971	-11.4058	
HCHO T2	-0.6116	-0.24348	0	0.600006	1.263763	1.255074	-0.22899	-0.97102	-2.12174	1.31015	0.35363	0.17979	0.373909	-0.09566	-0.31884	-0.13043	0.246376	0.176812	0.063768	-0.18261	-1.28696	0.475372	-4.41739	2.47246	7.423187	5.243481	-11.313	
HCHO T3	-0.5826	0.02319	0.095652	-0.33044	0.075363	-0.02318	-0.95363	-0.03768	-1.61159	-0.69276	-0.03478	-0.30435	0.27536	0.072464	-0.05797	0.605797	-0.16232	-0.10725	-0.01159	-0.44928	-0.95653	-0.13333	-5.14783	-2.31014	7.950722	4.968117	-10.5246	
HCHO T4	-0.28116	-0.27247	-0.08116	-0.52753	-0.47536	-0.68406	-2.8029	-0.04927	0.404209	-0.57681	-0.75652	-0.19711	-0.26087	-0.1942	-0.20438	-2.28696	-0.0087	0.04058	-0.29565	-1.73044	1.017395	-1.66087	-1.24928	6.793911	4.385509	-9.42609		
HCHO T5	0.240585	0.852173	0.136232	0.220921	0.663773	-1.0029	-0.10436	0.504349	0.63768	0.124634	-2.32753	0.18261	3.388405	-0.25507	-0.03478	-0.02609	0.23478	0.243481	1.40579	1.571014	-3.77681	-6.02609	7.742027	5.031883	-9.57391			
Benzene T1	1.226082	-0.3971	-0.57391	-0.26088	-0.54784	-0.64058	0.023178	-0.25507	-0.95943	0.336243	0.246384	-0.11594	0.336227	-0.44347	-1.76522	0.536232	0.573914	0.078261	-0.21159	1.489853	0.307236	-0.62029	1.843475	2.11594	-3.16811	-0.54783	2.304352	
Benzene T2	1.034782	-0.74783	-0.47826	-1.13913	0.252167	0.324631	-0.77103	-0.57393	-1.41739	-0.94203	-0.41739	0.846375	-0.76521	-0.36233	-0.20229	-0.08896	-0.33623	-0.35073	1.098549	1.608688	-0.72464	2.782608	3.81739	-4.56233	-0.86667	2.857971		
Benzene T3	0.350731	-0.65508	-0.13623	-0.46378	0.446381	0.008698	-0.30479	-0.15073	-0.78839	-0.56233	0.0579712	-0.64928	-0.53912	-0.22609	-0.76232	0.400002	0.13044	-0.51884	-0.08116	0.814491	-0.64928	-0.73042	4.521744	2.4286957	-3.11305	0.50725	1.371017	
Benzene T4	1.150726	0.217392	0.573914	-0.24347	-1.6145	0.50145	-0.1913	-1.20458	-2.13335	-0.68406	-0.05667	-0.21335	-0.15310	-0.31014	-0.44638	-0.52174	-0.72463	0.080696	-0.10145	1.573914	0.765561	-1.41209	1.44928	2.602898	-2.73913	-0.46957	0.199997	
Benzene T5	1.130432	-0.38551	0.330435	0.39711	1.263779	2.457977	-0.12174	1.028984	-0.11014	-0.51593	-0.38551	-0.40579	0.288956	-0.43478	-0.49565	-0.73043	-0.85508	0.008696	-0.07246	1.547825	0.904358	-0.77101	3.565216	2.652172	-3.86087	-0.66087	2.434784	
1,1,1 Trichloroethane 1	-0.11884	0.704346	0.426078	-0.54204	-0.26376	-1.06957	-0.75942	0.504349	-1.80289	-1.4174	-1.13624	-0.72463	-1.56522	-1.97681	-2.53333	-1.55073	0.185501	0.342029	-0.057971	-0.97971	-0.19421	0.055069	-1.92464	-0.6087	3.49855	-0.36812	-3.89565	
1,1,1 Trichloroethane 2	-0.42899	0.568119	-0.02319	-0.62029	-0.0029	-0.28898	-0.46895	0.304782	-0.89854	-0.25798	-0.108116	0.037682	0.199997	0.098557	-0.324638	-0.25797	-0.88116	0.089855	0.431884	-0.29565	0.347824	0.405792	-0.81448	-1.7971	3.582611	-0.42193	-2.88117	
1,1,1 Trichloroethane 3	-0.12463	0.237686	0	-0.35652	0.31884	-1.29276	0.646378	1.168114	1.457977	-0.78551	0.286957	-0.11305	0.214493	-0.04927	0.124638	-0.12753	-0.37102	-0.73043	0.197101	-0.4087	-0.53622	-0.02319	-1.07826	-0.91884	3.231884	-0.93044	-3.87247	
1,1,1 Trichloroethane 4	0.278259	0.576813	0.011594	0.088959	-0.06087	-0.67535	0.07246	0.486954	-1.50725	-0.156552	0.081154	0.397102	-0.22319	-0.0508	-0.74203	-0.13034	0.13339	0.104384	0.324638	-0.1971	0.884064	0.168121	-0.51035	-1.71014	4.379711	-0.27826	-4.08986	
1,1,1 Trichloroethane 5	-0.37392	0.037682	0.014493	-1.14493	-0.29565	0.17012	-0.37392	0.034782	0.50145	-0.69276	-0.28986	-0.02898	0.028982	-0.173916	-0.31594	0.402901	0.65797	-0.16232	-0.97392	0.145507	-0.44638	-0.62898	-0.08696	4.495651	-4.1971	-2.88117		
p-Xylene 1	-0.29565	-0.72174	-0.05217	-2.29276	-1.6087	-1.6	-1.05507	-0.5971	-1.53913	-1.81449	-1.57971	0.336231	-2.46377	-1.4058	-0.50724	-1.96232	-1.18261	-0.11304	-2.47147	-7.1913	4.110153	-27.4174	-11.0899	60.54493	40.22609	-90.1971		
p-Xylene 2	1.217392	1.959419	2.214493	-0.12753	0.240578	0.098551	-0.29855	0.371014	-0.63479	-0.35622	1.570275	1.718838	-0.11305	0.605797	0.686954	1.556519	0.739128	3.22319	0.715942	-0.57101	-12.73622	3.255066	-14.2985	12.15581	51.58551	34.20869	-84.5768	
p-Xylene 3	-0.49565	0.782608	0.585507	0.339142	0.124649	-0.64927	0.84639	0.495651	-0.07246	0.417404	-0.33913	0.304433	-0.6116	0.133331	0.759418	-0.33913	0.446381	0.263769	0.098551	-1.48695	2.834778	-1.85101	-10.9536	53.86667	36.57101	-89.0551		
p-Xylene 4	-1.61449	-0.87536	0.012899	-2.48116	-2.50725	-1.43478	-3.9913	-0.335942	-2.42029	-2.421389	-0.846383	0.1626087	-3.77681	-0.55949	0.930435	-1.24638	0.321739	1.802898	0.614492	-1.37391	-1.918262	4.066681	-16.6116	12.4725	60.0116	42.15653	-89.6145	
p-Xylene 5	-0.89565	-0.168111	0.736229	-0.34782	-0.63189	-1.47826	-1.45218	-1.10435	-1.01449	-1.50145	-0.87827	0.046379	-1.68405	-1.49275	-1.26086	-0.65797	-0.70145	1.289856	0.011594	-1.73623	-6.97392	2.339142	-15.6348	-12.2435	52.82029	35.87536	-88.7478	
o-Xylene 1	-0.32175	-1.55362	-0.35362	-0.91884	-0.89275	-1.51274	-3.11305	-0.49276	-3.23478	-3.38551	-1.36225	-0.20457	-0.50724	-0.16552	-0.50724	-0.65795	-0.206377	-1.17971	0.10145	0.443478	-2.11884	-6.90434	3.979721	-28.1971	11.4261	63.05791	44.12464	-85.9884
o-Xylene 2	0.402893	5.359421	12.87536	-2.06657	-1.35652	-2.23189	-3.86087	-0.00579	-5.30434	-0.91594	0.521736	0.737917	-1.26378	-1.64348	0.255074	2.718842	3.892754	9.417389	0.127536	-2.33333	8.66957	0.4028796	-27.913	11.3971	64.04347	45.05217	-81.6667	
o-Xylene 3	-0.38261	-0.37391	-0.34783	-0.57681	0.069565	-0.13623	-0.13043	0.26667	-0.37102	-0.2058	-0.27537	-0.04928	-0.67825	0.359421	-0.17971	-0.46087	0.411598	0.373913	-0.15362	-2.45218	-7.9884	4.200012	-31.7826	-6.9942	44.04927	-86.5623	-95.4558	
o-Xylene 4	0.953621	3.698555	5.205797	-0.57101	-0.4058	-0.89275	-0.24059	0.292747	0.371017	0.527542	1.388405	2.150723	0.472473	2.672462	3.652172	1.133331	1.750725	1.72463	0.765217	-1.9913	-7.83768	3.539124	-29.9826	10.4232	63.31304	45.11305	-81.2319	
o-Xylene 5	-0.31884	1.142029	1.953621	-0.16812	0.208694	0.156525	-0.104927	-0.38841	-1.46957	-0.72753	0.37913	-0.185505	-1.6522	0.104496	0.947826	-0.23768	0.880450	2.249275	0.301449	-1.30725	-5.45652	3.13913	-28.9304	-10.2348	62.65507	44.9971	-77.4406	
m-Xylene 1	-3.45218	-3.06377	-2.49855	-4.04059	-3.37482	-5.11884	-1.474782	-4.21159	-6.60807	-1.10725	0.102894	-2.63478	-2.22319	-0.9851	-0.17681	0.739128	3.437681	0.075362	-2.18551	-0.905217	4.1884	-39.7942	-1.77101	50.26666	29.38261	-95.8754		
m-Xylene 2	-1.11594	-0.51885	-1.11304	-0.95653	0.165215	-0.33623	-0.85217</																					

	R10	G10	B10	R11	G11	B11	R12	G12	B12	R13	G13	B13	R14	G14	B14	R15	G15	B15	R16	G16	B16	R17	G17	B17	R18	G18	B18	
Control 1	0.26087	-0.26667	-0.74492	1.417389	0.124641	-2	-0.29855	-0.88405	-0.10725	0.455078	-0.59999	-0.54782	0.495651	0.208702	-1.24347	0.594203	0.417397	-1.55072	1.449276	0.55072	-0.67827	0.211594	-0.30144	0.136246	-0.46668	-0.46087	0.052177	
Control 2	-0.01159	-0.16522	0.066666	1.15942	0.736237	-1.96231	-0.14493	-0.14203	0.426086	-0.75362	0.026093	-1.43768	-0.39131	-2.24638	-0.72754	0.75942	-0.22609	-0.77103	0.202898	-0.28984	-0.18262	0.176819	-0.291046	-0.162318	0.489853	0.49855	0.652176	
Control 3	0.150725	0.846378	-0.55652	0.257973	0.205083	0.217392	-0.25507	-0.08116	-1.05797	-0.12463	-0.37972	0.02899	0.072464	0.107246	-0.08696	-0.092751	-0.71884	-0.08696	0.321739	0.13623	-0.78551	0.005798	0.110138	0.58259	-0.03188	-0.82898		
Control 4	0.014493	-0.10145	-0.74783	0.988405	-0.13913	-1.74493	-1.2029	-0.55362	-1.03478	-0.36812	-0.22899	-0.58841	-0.12174	-0.19131	-0.91594	-0.10725	-0.04058	-0.25507	0.223186	-0.22029	-0.96812	0.463776	-0.42899	-2.41449	-0.64348	-0.02898	-0.47536	
Control 5	-0.0058	0.165218	0.942032	0.130434	0.388412	-1.04637	-0.74204	0.284058	-0.37971	-0.47537	-0.71304	1.142029	-0.05219	0.460869	-0.2058	-0.07246	0.176811	0.037689	-0.41159	-0.08115	0.510132	-0.58261	-0.1797	-1.70145	-0.22609	0.347824	0.13044	
HCHO T1	0.944927	1.150723	-5.82608	12.49275	5.968109	-9.71884	-0.50435	-0.26668	0.336231	1.463776	1.086945	-0.54203	2.284058	1.350723	-0.8029	0.405797	0.069565	-0.90724	0.423191	-0.33334	-1.76521	-0.18262	-0.14203	0.211594	-0.2058	-0.11015		
HCHO T2	0.936232	1.797104	-7.53914	13.29855	6.478256	-7.9884	0.481171	0.205795	0.518841	0.646362	0.67247	0.336235	1.802902	1.930435	0.026087	0.228986	0.171013	-0.54784	2.031883	0.44928	-0.75362	0.153625	-0.43189	0.153625	0.579712	0.249275	-0.04058	
HCHO T3	0.414493	1.13045	-6.22319	11.62899	5.843483	-9.49855	0.782608	-0.32465	-0.05057	0.886963	1.136246	-0.84046	1.785507	2.518837	-0.6116	0.547826	-0.06667	-1.72464	0.602898	0.10144	-0.225507	-0.74492	-0.08986	0.779709	-0.85217	-0.18116	-0.75652	
HCHO T4	0.643478	1.455074	-4.15363	11.72174	6.408707	8.39313	0.472473	0.452179	-0.31304	1.710144	1.101456	0.278259	2.48407	2.968117	-0.6029	0.71015	0.49276	-0.97681	0.930431	0.956512	-0.10174	0.084061	0.002899	-0.17102	0.434769	0.19711	0.234783	
HCHO T5	-1.68116	-0.69565	-7.59421	14.42899	0.595642	-7.72755	-0.22029	0.330444	0	0.046371	0.8116	-0.87826	1.991102	4.194199	-0.33913	0.385508	0.226082	-0.44058	0.814495	1.344925	-0.36232	0.971008	-0.6116	-1.17392	-0.10725	-0.48985	-0.32174	
Benzene T1	1.147826	2.337679	3.191315	-5.70725	-0.751652	4.028892	-0.57101	0.646378	3	-0.24347	-0.61159	-0.00579	-1.35652	-1.56232	2.611595	0.118841	0.304352	-0.15653	0.672464	0.402901	-0.8145	0.713043	-0.69276	-1.18262	-0.64058	-0.34783	-0.47536	
Benzene T2	0.559421	0.144928	4.405792	-6.8	-1.76521	5.452164	-1.43768	-0.4637	1.74493	-2.14783	-1.07246	1.075363	-2.52754	-2.127537	0.07536	0.208702	-0.34499	-0.72754	-0.70435	1.962318	-1.58841	-2.24347	0.95363	-1.31305	-0.71884	-0.66666		
Benzene T3	0.884059	-0.04927	3.03479	-6	-1.59129	0.409857	-0.94202	0.484055	1.994022	-0.46957	0.106597	-0.55262	-0.240866	2.42609	-0.0116	0.04057	0.263769	-0.681116	0.86667	0.41159	-0.47826	-1.25088	-0.155942	0.023186	-0.91304			
Benzene T4	1.295652	-0.31595	2.704346	-5.1884	-2.34493	3.968109	-2.53912	0.081161	1.400002	-0.37392	-0.49855	1.971016	-3.47246	-3.06377	1.605797	-0.09855	-0.19421	-1.53044	-0.06667	-0.64348	-0.05797	-1.46088	-2.28406	-4.2029	-1.60289	-0.55073	-0.72464	
Benzene T5	0.846376	0.257973	4.930435	-6.04058	-1.44058	4.942032	-0.50723	0.382599	2.576809	0.22319	-0.31593	1.776817	-1.92464	-1.85508	2.121742	-0.18841	-0.11015	0.092754	-0.41159	0.31015	0.49855	-1.59131	0.315933	-0.24637	-0.42609	-0.02029		
1,1,1 Trichloroethane 1	-0.54783	-0.01739	-0.17102	3.434782	-1.49275	-5.42609	-1.59421	-1.02029	-1.45218	0.069565	1.049271	-0.79405	2.688987	-2.72754	-0.22029	-0.48406	-2.94782	0.211594	-1.89565	-1.6116	-0.46666	-0.6116	-1.1702	-0.71884	-0.68406	-0.28986		
1,1,1 Trichloroethane 2	-0.32174	-0.01739	0.942032	3.014492	-1.31884	-3.53043	0.301453	-1.11594	-1.30145	0.576813	0.547821	-0.24638	1.31884	3.89832	-0.05057	-0.02899	-1.16232	-1.51885	0.310144	-2.24347	-0.73624	0.09857	-1.26088	-1.43767	0.51884	-0.08116	-0.14493	
1,1,1 Trichloroethane 3	-0.4058	0.469563	0.878265	3.469566	-0.30435	-3.31885	0.828995	-1.26088	-0.97391	0.605804	0.243484	-1.17971	1.179703	3.553619	-2.35362	0.602899	-1.45798	-1.28116	0.733332	-1.10146	0.76521	0.260864	0.26088	0.43189	0.295654	-0.11884	-0.47246	
1,1,1 Trichloroethane 4	-0.2058	0.353622	1.286957	2.968117	-0.8174	-0.53769	0.924637	0.081146	-1.32464	1.843475	0.91304	-2.1159	1.710159	0.63766	-0.23576	0.107246	-1.45798	0.652174	-1.59711	-0.21816	0.394196	-0.197098	-1.02029	0.611588	0.29855	0.553333		
1,1,1 Trichloroethane 5	1.478261	2.147827	3.127545	3.857971	-1.08406	0.812573	-0.53768	-1.66666	1.478271	-0.10607	1.159424	4.81739	-2.7826	-1.33334	-2.11303	0.486956	-1.0158	1.62029	-0.58841	-0.62608	-0.13043	0.17391	-0.73623					
p-Xylene 1	0.585507	6.043478	-37.4377	78.46667	35.25797	-70.9652	3.13913	2.124649	-0.13044	5.321732	5.582596	-1.35362	19.91016	43.57101	-4.32174	2.385507	-2.13913	-6.45218	3.869565	-5.5971	-6.68985	-0.28406	0.492752	-0.71014	0.768112	0.614502	0.530434	
p-Xylene 2	0.011594	6.414492	-29.0145	72.29855	33.06377	-62.9101	5.092743	2.924637	-0.09855	0.5991318	5.785507	-1.50725	21.51015	43.35072	-3.72464	1.515942	-1.8116	-0.30463	1.127536	-4.41449	-5.29565	0.660858	1.466675	-0.60579	1.495651	0.31015	0.212742	
p-Xylene 3	0	4.956522	-30.4899	78.44058	35.08115	-69.0058	3.402893	2.243484	1.037682	3.475357	3.918893	0.324638	20.10436	42.1797	-3.55653	2.130435	-1.78261	-5.91885	2.139131	-4.92174	-4.84348	0.211594	-0.26086	1.602905	1.057968	1.339127	3.168114	
p-Xylene 4	2.211594	7.211596	-34.7594	87.69565	38.6116	-68.229	4.298553	2.86377	-1.44058	6.991302	5.86087	-0.47826	20.88406	40.9855	-3.78841	1.684058	-0.07536	-5.54204	2.194203	-4.22608	4.92124	0.579712	-1.07254	-1.6116	0.947815	0.05084	0.168114	
p-Xylene 5	0.002899	4.784808	-31.6087	76.73562	35.54783	-71.3855	2.991302	1.846375	0.257973	5.484055	5.744934	-1.2	-1.92464	42.55362	-5.01739	1.837681	-1.68696	-5.70423	2.713044	-4.89565	-6.8	0.492752	-1.21739	-0.12739	1.217392	-0.21046		
o-Xylene 1	1.246377	10.48406	-51.8957	89.96523	39.16522	-68.8812	4.649277	0.910141	-0.85057	4.553619	4.113052	-0.56523	15.26666	30.88985	-4.2	-6.68985	-6.66667	1.30752	3.15029	-5.20309	-7.44348	0.611588	-0.83479	0.910141	-0.22609	-0.10146		
o-Xylene 2	1.71884	11.1305	-50.1913	91.85217	38.77862	-67.2841	1.075363	1.515945	-1.34493	3.957029	3.376816	-1.53624	2.7826	29.9944	-3.93791	1.689858	-1.59542	-6.08406	2.881159	-5.39999	5.97101	0.368118	-0.61158	-0.24928	-0.88405	-0.51883	-1.6145	
o-Xylene 3	0.408696	8.2029	-46.4754	89.58261	40.62899	-71.7652	3.460876	1.495651	-0.77391	6.194199	4.872467	-2.2058	16.45798	34.66087	-4.2058	2.017391	-1.87537	-5.45218	3.365217	-7.35362	0.101456	0.704346	-1.38261	-0.14783	-0.94264			
o-Xylene 4	0.655072	7.72464	-46.4029	92.12754	41.26956	-77.449	1.517014	1.567369	-0.69855	3.973907	3.339142	-0.481158	14.56533	29.04639	-3.29565	1.56816	-2.22069	6.31889	2.872463	-4.54493	-5.29565	1.64203	-0.136812	0.324631	-0.86667	-0.33913		
o-Xylene 5	0.44058	8.620289	-48.2261	87.47537	38.62002	-69.7944	2.379715	2.147827	-0.162319	0.414499	4.144199	-0.30768	15.95653	30.54492	-3.08993	2.092752	-1.84058	-5.31303	0.886957	-4.12174	-1.76522	0.278259	0.005798	0.571014	0.153625	0.266663	0.582611	
m-Xylene 1	0.211594	6.846378	-55.0667	79.5913	50.10435	-92.6464	3.617386	1.744934	-1.36522	7.684067	4.729275	-2.092855	21.11024	45.25074	-3.93653	10.34782	-1.7014	-5.33913	1.26087	-3.55073	-2.6116	-6.21159	-0.66087	-0.69275	-1.32175	0.663773	-0.21449	-0.0116
m-Xylene 2	0.226087	5.005796	-44.62023	83.32174	45.84927	-81.2927	4.559418	2.507248	-0.76812	9.359421	7.452179	-1.75652	20.29855	41.27826														

	R19	G19	B19	R20	G20	B20	R21	G21	B21	R22	G22	B22	R23	G23	B23	R24	G24	B24	R25	G25	B25	R26	G26	B26	R27	G27	B27
Control 1	-0.11305	0.107246	-0.21449	0.953613	0.162323	-0.48985	-0.47537	-0.52174	1.156525	0	-0.40869	0.327538	0.452164	0.110145	0.42029	-0.63478	-1.05217	-0.4029	-0.30435	-0.59419	-0.75942	0.257965	-0.29565	0.028986	-0.42899	-0.3942	-1.16521
Control 2	0.513042	0.266666	-0.51304	-0.0174	-1.71014	1.515942	-0.28696	1.315948	-0.48406	-0.57681	0.1046379	-0.11594	-0.0087	-0.4	-0.50105	-0.74783	0.626087	-0.59131	0.260872	0.130435	0.0408707	0.081158	0.028986	-0.53622	-0.0029	-0.56813	
Control 3	0.026089	-0.03768	0.02899	-0.21159	-0.34782	-0.579712	-0.74783	0.739136	-0.59709	0.063766	0.185501	0.347828	0.692749	0.075362	0.463768	-0.017395	0.113037	0.066667	-0.52174	-0.61739	0.362319	0.110138	-0.15073	0.066667	-0.6145	0.105217	-0.31595
Control 4	0.04348	-0.54493	-0.24058	0.005798	-0.06957	-0.47246	-0.22899	-0.54202	0.255081	-0.07246	-0.28986	-0.91884	0.539124	-0.04348	-0.41739	-1.14783	-0.44638	-0.87536	-0.0174	0.066666	0.249276	-0.05507	-0.02319	-0.15652	0.31049	0.014496	-0.71594
Control 5	-0.22319	0.21739	0.927536	-0.02319	-0.10144	-0.30145	0.153625	0.356522	0.13623	-1.0058	-0.28117	0.750725	0.718842	0.24058	0.063768	-0.50435	0.231888	0.130435	0.020294	-0.14783	-0.11594	0.043472	0.066666	0.02029	0.260864	-0.09564	-0.90434
HCHO T1	0.289856	0.098551	0.028984	0.721741	-0.06957	-0.07536	-0.51593	-0.44638	0.579697	0.159424	-1.04927	-0.66087	-0.88406	-1.23479	-1.72174	-0.40579	-0.33623	-0.52174	-0.09556	-0.06088	-0.45579	-0.08695	-0.31884	0.223188	-0.76521	-0.40871	1.292755
HCHO T2	-0.73624	-0.07536	0.202904	0.666656	-0.04347	0.365219	-0.26666	-0.37682	-0.7971	0.455078	-0.59419	0.263771	-0.15653	-0.0145	1.347824	-0.12463	0.695652	-1.2058	-0.05217	0.362319	-0.51885	0.400002	-0.07246	-0.13043	0.043488	0.115936	
HCHO T3	-0.17392	-0.11884	0.060867	-0.19421	-0.24637	-0.65508	0	-0.8232	-0.34493	-0.87827	-0.28406	0.139133	-0.37102	0.759422	-0.18261	0.213873	0.61559	0.37681	-0.68117	-0.3913	-0.37681	-0.10435	-0.64638	-0.50435	-0.84058		
HCHO T4	0.089851	0.121738	-0.4087	0.376801	0.611603	-0.87537	0.547836	-0.08984	-0.70726	0.814499	0.301437	0.034782	-0.06957	0.168114	0.486954	0.139145	0.057968	0.031884	-0.6261	0.353622	-0.43768	0.081161	0.049278	0.24638	-0.02898	0.020294	0.530441
HCHO T5	-0.64638	-0.05218	0.188404	0.037689	0.89566	-1.40869	0.014496	-0.36232	-0.53334	-0.10724	0.576809	-0.2029	-0.0145	0.83478	-1.42609	-0.86377	0.15361	0.462086	0.666666	-0.35941	0.060873	-0.31014	-0.54782	0.162233	-0.1971		
Benzene T1	-1.77971	-0.65217	0.63768	1.58551	0.249268	-1.34783	0.547821	-0.22899	-0.68985	-0.08984	0.672455	0.753624	-0.83189	-0.97392	-0.75362	-0.15651	-0.23189	-0.31015	1.199997	-0.14203	0.34203	0.142029	-0.24058	-0.82899	-0.44058	0.144928	0.87825
Benzene T2	-1.63478	-0.12754	1.452171	-0.05217	0.394196	0.266666	-1.24928	-0.1971	-3.13913	-0.77103	0.176819	0.466667	-0.91304	-0.74493	-1.12463	-0.26956	0.56232	0.008696	0.28976	0.611595	-0.22899	-1.10724	-0.17971	-0.12464	-0.28116	0.246368	-0.829
Benzene T3	-2.12464	-0.97391	0.307243	-0.13333	0.63768	-0.58841	0.318848	-0.42609	-2.41739	-0.0087	-0.54782	0.437478	0.71304	-1.12174	-0.1942	-0.60291	-0.07246	-0.55942	0.48407	0.075363	-0.72464	-0.90434	-0.26667	-0.38261	-0.04637	-0.3768	-0.78551
Benzene T4	-1.91304	-1.03478	1.214493	-0.36522	0.153625	0.255074	-0.87825	-0.75653	-1.8087	-0.49855	-0.10724	0.66087	-1.25797	-0.27537	-0.71014	0.30435	0.405796	-0.39421	-0.24928	0.794203	-0.8058	-0.42609	-0.06377	-0.60579	-0.25508	-0.83769	
Benzene T5	-2.10145	-0.42899	0.837683	0.742035	0.408707	-0.11594	-0.89566	0.49855	-1.43768	-0.35652	0.049271	0.382607	0.272461	-0.30184	0.5942	0.286957	0.08116	0.15942	-0.08405	0.257973	0.695652	-0.38841	-0.12464	-0.72464	-0.62898	-0.21448	0.304352
1,1,1 Trichloroethane 1	-0.0029	-0.29855	-0.13044	-0.48116	-0.44348	-0.07826	-0.89856	-0.0058	-0.37392	-0.95361	-1.38261	-0.83769	-0.58551	0.344927	0.249275	-1.18552	-1.44348	-0.08116	-0.06957	-1.15653	-1.3652	0.142029	-0.3942	-1.54202	-0.34204	-0.28116	
1,1,1 Trichloroethane 2	-0.15363	0.356522	-0.67246	-0.14203	-0.08954	-0.42319	-0.66666	0.513046	0.086989	0.034775	-0.60869	-0.02605	0.063766	0.420288	-0.41449	-0.25218	-0.54202	-0.22899	0.063766	-0.22029	0.12659	0.05217	0.297255	-0.23478	-0.74493	-0.44348	-0.27536
1,1,1 Trichloroethane 3	0.017391	0.136232	0.289856	-0.41449	-0.17688	0.089851	-0.10436	0.005798	-0.15363	-0.05217	-0.65797	-0.71594	0.463776	-1.3913	-0.16522	0.072464	-0.61449	-0.8087	0.147827	-0.02899	-0.78261	0.023193	0.113045	-0.4	1.657974	0.234646	2.310135
1,1,1 Trichloroethane 4	-0.17101	0.176812	-0.72754	-0.06667	0.130432	-1.40289	0.168121	0.156525	0.771027	-0.43189	-0.40579	-0.35652	0.055072	-0.28696	-0.35652	-0.42319	-1.01159	0.046371	-0.22029	-0.12741	-0.88985	0.60289	0.614494	-0.33913	0.313049	-0.03188	0.37677
1,1,1 Trichloroethane 5	-0.27536	-0.16232	0.478264	-0.83768	-0.17012	-0.27827	-0.49855	-0.64348	0.394211	-0.11883	-0.124348	-0.14783	0.579313	0.130435	-1.23769	-0.64638	-0.72464	-0.42609	0.289848	-0.6087	-0.0508	0.49855	-0.27536	-0.88696	-0.9855		
p-Xylene 1	-1.12754	-1.69565	-1.70435	2.124634	0.652161	-0.62899	0.072464	0.524643	2.428986	0.008698	-0.0116	0.597099	0.576813	1.330437	0.982609	0.020294	0.037674	0.46087	0.72464	-0.47247	-0.2058	0.60289	0.982605	1.289856	-0.10434	-0.0724	-0.06667
p-Xylene 2	3.463768	3.672464	1.79709	3.660873	2.333344	-0.95073	0.759415	0.214493	3.278259	0.450681	0.457977	-0.53623	1.124634	1.078255	-0.17392	1.286957	-0.06087	-0.0087	1.423187	0.301453	0.167536	0.104355	2.272461	2.889854	0.098541	0.289856	0.379715
p-Xylene 3	1.434784	0.878262	-0.25217	3.188408	1.910156	-0.15195	-0.42029	0.457962	2.62085	0.173904	-1.12174	0.310143	-0.0116	-0.1594	0.031883	0.495667	0.292755	-0.68986	0.350723	0.14782	-0.3043	-0.30724	1.39711	0.420296	-0.46376	-0.156521	-1.95943
p-Xylene 4	2.13913	1.643476	0.773911	4.455078	1.817879	-1.94783	-0.07536	0.315933	3.27536	0.440582	1.10144	-1.70725	-0.44638	0.350723	-0.44638	0.394211	0.031876	-0.26667	0.915939	0.185501	-0.50145	0.875366	1.800003	1.866661	0.478256	0.255066	0.353622
p-Xylene 5	0.591301	-0.51015	-0.13914	4.252174	2.359421	-0.26498	-0.15942	1.246368	2.095657	-0.24927	-0.30724	0.333328	0.452179	0.602894	0.423187	0.379715	-0.41159	0.570104	0.110153	-0.33914	0.72464	0.553619	1.956512	-0.15944	0.826096	-0.93044	
o-Xylene 1	1.466671	0.037682	-0.71594	0.67455	0.298553	-1.33333	-0.28986	-0.51303	1.994202	0.452164	-1.10434	-0.84927	-1.21449	-0.66667	-0.43189	-0.28696	-0.008694	-0.75653	-0.66666	-0.28986	-0.84046	0.393334	1.61739	-0.22607	-0.77252	-0.44348	
o-Xylene 2	5.194199	2.566688	2.101456	0.209211	-0.58551	-0.23043	-0.62747	0.185504	-0.449265	-0.24347	0.040581	0.426102	0.072464	-0.14493	-0.33913	0.115952	0.055073	0.057683	-0.64638	-0.15072	-0.24928	1.271932	0.252174	-0.30478	-0.87537	0.10434	
o-Xylene 3	-0.51885	-2.66667	-2.45797	1.272461	0.101738	-1.26667	0.05217	-0.56522	2.08696	-0.27536	-0.72174	-0.96522	-0.44638	0.315948	-0.333336	-0.1768	-0.51595	-0.42609	-0.04639	-0.28986	-0.81159	0.263763	1.420303	1.771015	-0.036782	0.30725	0.36232
o-Xylene 4	2.333328	1.368116	-0.17681	0.828979	0.558511	-0.156522	-0.93913	0.25798	3.524628	0.562317	0.24057	-0.89563	-0.05507	0.408691	0.049274	0.428986	0.043472	-0.17681	-0.02029	-0.06957	-0.49855	-0.40871	0.472464	1.147827	-0.91048	0.147389	0.166666
o-Xylene 5	0.45507	-0.25797	-0.58551	1.243484	0.576813	-0.63188	0.101738	0.239532	0.173913	-0.0116	0.388412	0.373913	-0.14783	-0.46086	0.13913	-0.08116	0.278259	-0.13623	-0.2	-0.15653	0.759422	1.875362	1.133331	0.275375	0.147827		
m-Xylene 1	-2.50435	-3.90725	-4.4029	3.904343	0.588409	-0.95942	-1.07536	-0.31015	3.715942	-0.8	-1.90435	-1.76523	-0.89565	-1.26087	-1.25507	-0.102899	-0.35362	-1.46377	-0.68406	-0.98554	1.388405	-0.20291	-0.02899	-0.79999	-2.72754		
m-Xylene 2	1.768116	2.869596	-0.12463	3.884064	1.58551	-0.4058	-0.02899	0.605789	4.539139	-0.53622	-0.90434	-0.6058	0.269562	0.072464	-0.37391	0.707245	-0.171971	-0.31884	0.08								

	R28	G28	B28	R29	G29	B29	R30	G30	B30	R31	G31	B31	R32	G32	B32	R33	G33	B33	R34	G34	B34	R35	G35	B35	R36	G36	B36	
Control 1	-0.1942	-0.67246	0.979706	0.284058	-0.46376	0.388412	-0.33623	-1.10144	-0.21159	-0.94492	-0.86087	-0.51885	0.249275	0.179703	-0.24348	-0.19133	-0.88696	-0.06667	-0.20001	-0.06667	0.452173	0.347828	-0.45217	0.756531	0.510143	-0.63768	-0.98552	
Control 2	0.530434	-0.14783	0.921741	0.411606	-0.14783	-1.13623	-0.68115	0.565216	0.89566	0.023193	0.68985	-0.08986	0.382607	-0.101739	0.591707	0.278275	0.257965	0.257971	-0.62318	-0.55364	-0.28696	0.405796	-0.4	-0.257391	0.472464	-0.51884	-0.106377	
Control 3	0.17971	0.13913	0.020294	-0.1913	-0.36811	0.1049286	0.156525	-0.02318	0.768112	-0.25058	-0.92464	0.159424	-2.69566	-2.14203	-2.64928	-0.80289	-0.10144	-0.02899	-0.2029	-0.08406	-0.06087	-0.157101	-1.45508	0.156815	0.197102	0.057968	0.388412	
Control 4	-0.06377	-0.49275	-0.50145	0.547821	-0.70725	-1.02899	-1.29855	-0.42319	-0.59709	0.727539	0.263763	-0.46957	0.556526	-0.30145	-1.31015	-0.32465	-0.77681	0.481159	0.075363	-0.08986	0.130435	0.379709	-0.07536	-1.08695	0.034782	-0.06087	-0.66377	
Control 5	-0.43478	0.050573	-0.04927	-0.07246	-0.13044	-0.23477	-0.11595	0.742035	-0.71884	0.043472	-0.67825	0.1040588	-0.03768	-0.25218	-1.23767	0.727524	-0.64638	0.304347	-1.02899	0.286957	0.052174	0.286957	-0.27247	0.46666	0.200001	0.092751	-0.95363	
Ethanol 1	-0.70725	-0.69565	-0.53623	-0.8203	0.04348	-0.3826	-1.0174	-0.32753	-0.66667	0.915939	-0.40579	-0.39711	-0.49565	-0.51595	-0.63478	-0.88406	-0.10579	0	-0.72464	-0.62608	0.02029	0.269566	-0.17681	-0.27246	-0.26087	-0.47247	-0.35942	
Ethanol 2	-0.18841	-0.11884	-0.37681	-0.45508	0.197102	0.168121	0.072464	-0.97971	-0.03478	-0.23479	0.217392	0.226074	-0.33044	-0.37682	-0.03188	-0.06378	-0.09854	0	0.260864	-0.46086	0	-0.02898	0.101452	0.037682	-0.33623	-0.62609	-0.38551	
Ethanol 3	0.110146	-0.48696	-0.24348	0.043488	0.321739	0.156222	0.171005	-0.0145	0.72464	-0.91014	-0.94783	-0.76811	-0.26086	-0.73344	-0.91306	-0.34203	-0.87247	-0.38551	-0.78551	-0.16521	-0.26069	0.191305	0.084057	-0.55943	-0.04928	0.57391	-0.89855	
Ethanol 4	0.301449	0.144928	-0.30145	-0.06957	-0.43768	0.649277	-0.35652	0.414505	0.518845	0.339172	-0.36323	-0.52463	0.50145	0.41449	0.30435	0.437668	0.0896	-0.07536	0.25075	-0.13043	0	0.13913	0.15942	0.463768	-0.51884	0.38551	-0.02029	
Ethanol 5	-0.36811	-0.15363	0.255074	-0.64928	-0.34203	-1.48117	-0.97391	-0.254782	-2.24637	0.1069563	1.814484	0.420303	0.623192	-0.23479	-0.31593	-0.30435	-0.04639	1.208696	-0.41449	-0.47246	-0.6029	0.228985	0.426086	-0.87246	-0.31304	0.214493	-0.44058	
Ethyl acetate 1	-0.33333	-0.14203	-0.1884	0.30145	1.475361	0.25798	-1.03767	-0.80869	-1.33334	0.2028992	1.226089	0.455078	-2.33044	-1.08116	-0.91014	-2.829	-3.41739	0.005797	2.217392	-0.504035	-1.2029	0.263767	0.208694	-0.70145	0.34203	0.217392	0.060867	
Ethyl acetate 3	-0.44928	0.026089	0.353622	-0.58841	-0.06087	-0.11014	-0.79131	-0.44638	-1.12175	-0.45796	0.852173	0.318832	-0.09565	-0.3768	-0.33333	-4.31885	-0.30145	0	-0.10564	-0.67827	0.42029	-0.11034	-0.18551	0.005798	0	0.118843	-1.51305	
Ethyl acetate 4	-0.38841	-0.5942	-0.24638	-0.31303	0.156521	0.672455	-0.88696	-0.27536	0.48406	0.182139	0.349853	0.2113072	-0.69855	0.391304	-0.75362	-0.27391	-0.409566	0.026087	0.597107	-1.16695	-0.41449	-0.3971	-0.28696	-0.01159	0.507248	-0.21449	-0.132464	
Ethyl acetate 5	0.04348	-0.04927	-0.18551	-1.69855	-0.68985	-0.77391	-1.2029	-1.29565	-0.23767	-1.04637	-1.47536	-0.20896	-0.066666	-0.0087	-0.94492	-0.45508	-5.53334	0	-0.8029	-1.4174	0.371016	-0.29275	0	-0.96522	0.47826	-0.92754	-0.10145	
Ethyl acetate 6	0.115944	-0.15652	-0.0029	-0.13623	-0.33333	-1.24347	-0.60289	-0.53622	-0.93623	-0.95071	-1.68117	-1.79131	0.591301	0.307251	-0.31883	-0.387825	-4.74202	0.197101	-0.30724	-0.87827	0.257971	0.347828	0.472466	0.411594	-0.30725	-0.46957		
Isopropanol 1	-0.42319	-0.3971	-0.81739	-0.2058	0.069572	-0.105508	-1.13623	-1.53044	-1.30403	-1.2029	-0.64638	-0.90724	-0.71304	-0.15942	-0.318832	-0.46088	-0.24638	0.333333	-1.72174	-0.94203	-0.13623	0.02029	0.191303	0.153625	-0.2087	-0.55652	-0.5942	
Isopropanol 2	0.17971	0.220291	0.478256	0.008698	-0.23188	-0.01158	-0.02029	-0.20869	-0.30724	-0.77971	-0.21449	-0.66666	-0.37392	-0.51305	-0.13623	-0.12174	-0.34783	-0.78551	0.031891	0.495653	-0.02029	-0.35652	-0.16232	0.42029	0.228981	0.489853	0	0.118843
Isopropanol 3	-0.04058	0.037682	-0.8087	0.182617	0	-0.24347	-0.29565	-0.9884	-1.78841	0.608688	0.921738	0.371002	-0.57681	-0.13913	-1.04347	-0.04059	0.373917	-0.46377	0.005798	0.692749	-0.70145	0.104347	-0.29565	-0.31885	-0.17392	-0.08405	-0.47247	
Isopropanol 4	0.130432	-0.15363	-0.26957	0.36322	0.232478	-0.42899	0.089859	-0.29276	0.54204	0.742035	1.211735	-0.39131	-0.02029	-0.47826	-0.65797	-0.75073	-1.16232	-0.1913	-1.42319	-0.71594	0.48116	-0.07246	0.240578	-0.55942	-0.19421	-0.10435	-0.11594	
Isopropanol 5	-0.11015	0.31884	-0.38551	-0.44058	-0.83479	-0.89565	-1.06957	-1.14203	-1.67247	0.176812	0.219424	0.605804	-0.55362	-0.59131	-0.67825	-0.028992	-0.76231	-1.64058	0.23769	0.391312	2.310144	0.214493	-0.16232	-0.31594	0.014492	0.382614	-0.31014	
MEK 1	-1.06087	-1.06957	-0.29276	-0.22899	0.050577	-1.70725	-0.10724	0.063766	0.402893	0.605789	0.631882	0.315948	-0.10436	-0.31305	2.011597	0.3579712	-0.26088	-0.64638	0.640579	-1.57971	-1.98551	-0.04638	-0.3971	-2.23188	0.106087	0.188509	-1.35362	
MEK 2	0.689854	0.594204	-0.3913	0.388397	0.962318	-0.11885	0.182602	-0.11885	0.040573	1.736237	1.098541	1.365219	0.762314	0.065789	1.515945	0.324478	-0.05797	0	0.465974	0.158894	1.049275	0.518841	0.886955	-1.33623				
MEK 3	0.275368	-0.98555	-0.16232	0.118851	0.098549	0.147827	0.48407	-0.07246	0.237686	0.107254	0.379715	-0.04639	-0.40579	0.179703	-1.0058	0.936234	-1.18262	0	0.539126	-0.6058	0.005797	0.081159	0.37971	-0.132464	0.936233	0.939129	-1.3942	
MEK 4	-0.65217	0.028984	-0.12174	-0.0029	0.08154	0.168121	0.600006	0.220291	0.191299	0.176804	0.385498	-0.9942	0.102318	-0.19711	-0.06668	0.108696	-0.44928	0	0.260864	0.713043	-0.5913	0.162319	0.524637	-1.42319	0.411594	0.1046375	-1.32754	
MEK 5	0.289597	-0.31305	0.063766	-0.13913	-0.02898	0.005783	-0.04637	0.234787	0.991302	-0.14493	0.220291	-1.22029	-0.33043	-0.22609	-0.372682	0.159423	-0.02029	-0.32755	-0.28406	0.206867	0.133333	0.337913	-1.37391	0.797101	0.452175	-0.55072		
Styrene 1	-0.04928	-0.0588	0.826088	-1.40581	-1.34993	-1.49565	-0.46668	-0.83188	-1.53622	-0.66667	-0.02758	-0.10289	-0.20209	-0.32755	-0.28406	0.206867	-0.195943	-0.0944	0	0.36523	-0.60209	-0.2029	-0.3562	-0.243189	-1.237681	-1.79131		
Styrene 2	0.715942	0.408691	0.095654	-0.45508	-0.10791	-0.113037	-1.02899	-0.10299	-0.57681	0.154074	-0.10579	-0.16232	-0.075363	-0.06957	-0.54492	0.163773	-0.183769	0	0.695648	-0.48985	-0.85797	0.289855	0.344927	-2.13333	0.120289	0.97971	-2.31885	
Styrene 3	-1.09565	-0.70435	-1.16522	-0.20898	-1.02319	-1.6116	-0.02899	-0.27246	0.608688	0.121735	-0.64058	0.1263779	-0.34782	-0.0058	0.072464	1.721741	-1.28696	0	-1.12175	0.281158	-0.28406	0.405797	0.301449	-4.61739				
Styrene 4	2.220291	0.794205	0.277684	0.156509	-0.30724	-1.33333	0.573914	0.452179	-0.6203	-0.31015	0.605789	0.252167	-0.93623	-0.44928	-0.45508	0.646378	-0.98842	0	0.57391	0.681152	1.13045	0.149428	0.072461	-1.97971	0.50145	0.504349	-2.52464	
Styrene 5	0.295654	0.469566	-1.0058	0.107239	0.205795	0.597092	-0.24927	0.147827	0.211038	0.204057	0.733337	0.773911	0.021386	0.420081	0.240081	0.296109	-1.32753	0	0.098656	0.379715	-1.43768	-0.06087	-0.10435	-1.73334	0.631884	0.704305	-0.85217	
Acetone 1	-1.25507	-0.77681	-0.72464	-0.35072	-0.11884	-1.8116	-1.22319	-1.6116	-1.75362	-0.37972	-0.443481	0.359421	-0.58551	-1.08116	-1.45218	-0.26668	0	-0.88115	0.1884	0.008696	0.342029	0.113044	-3.11014	0.860869	0.968117	-2.42899		
Acetone 2	-0.1913	-0.31884	-0.33913	-0.33328	1.315941	-0.92754	-0.171005	-0.07246	-1.09854	0.591303	0.069565	0.063766	-0.086952	-0.22609	-0.27248	0.226089	-0.30087	0	0.150726	0.0150726	0.02029							

	R1	G1	B1	R2	G2	B2	R3	G3	B3	R4	G4	B4	R5	G5	B5	R6	G6	B6	R7	G7	B7	R8	G8	B8	R9	G9	B9		
ethyl acetate 1	-0.64638	0.620289	-0.32464	-0.03478	-0.35941	0.686951	0.36232	0.562325	-0.56232	-0.6261	-0.12754	0.252174	0.84639	0.428986	0.739128	0.118843	0.04348	0.121738	0.023188	-0.6087	-1.1797	0.191299	-1.92754	-2.36522	6.588406	1.684059	-30.7797		
ethyl acetate 2	-0.3913	0.011593	0.168116	-0.77681	0.460869	-0.39131	-0.08116	0.240578	1.168121	-0.47827	-0.35941	0.753624	0.011597	0.162315	-0.15942	0.414497	0.640579	-0.11014	0.023188	-0.27536	-2.26956	-0.36232	-0.82898	-2.03478	4.49855	1.49855	-23.258		
ethyl acetate 3	-0.08116	0.156222	0.121739	0.095657	0.066666	-1.05508	-0.05798	0.257973	-1.65797	-0.44927	-0.43478	-0.22899	-0.46668	0.594208	0.113045	0.446381	1.495651	1.24638	0.057971	-0.67246	-1.74783	-0.07826	-0.78841	-2.75942	5.15942	1.05797	-25.1855		
ethyl acetate 4	-0.08696	0.205799	0.286956	0.255066	0.240578	-0.23769	-0.91306	0.373917	-0.33913	0.228989	-0.53333	0.327538	-0.24928	-0.22897	-0.10725	-0.63188	0.115944	-0.01159	0.026087	-0.47246	-1.27826	1.046387	-1.15942	-1.46087	4.17971	0.904348	-24.0928		
ethyl acetate 5	-0.08847	0.167448	0.132694	0.104266	0.072666	-1.15004	-0.0632	0.281191	-1.80719	-0.4897	-0.47391	-0.2496	-0.50868	0.647687	0.123219	0.486555	1.63026	1.358554	0.063188	-0.73299	-1.90514	-0.08531	-0.85936	-3.00777	5.623768	1.151387	-27.4522		
iso-Propanol 1	-0.31884	0.446377	-0.07826	0.075363	0.228981	-0.15653	-0.23189	0.58551	-0.17102	0.611588	-0.0029	-0.68986	0.002899	0.588409	-1.21449	-0.5855	0.394203	-0.00869	0.246377	-0.53333	-1.50145	0.159409	-0.82318	-2.22029	3.307247	0.086958	-13.1826		
iso-Propanol 2	0.017395	1.089855	-0.18261	0.701447	0.678261	-1.28406	0.655075	0.81886	-0.41159	1.805801	0.13913	0.211601	0.034775	0.678261	-1.22608	-0.35072	0.449272	-0.82609	0.171015	-0.53623	-1.12753	1.611588	0.057968	-2.01739	2.214493	-0.23768	8.68405		
iso-Propanol 3	-0.9971	0.54203	-0.31014	0.153625	-0.24928	0.191299	0.043488	0.153618	0.48985	-0.26666	-0.30724	0.452179	0.944931	-0.07826	-0.09565	0.214493	0.646378	0.974826	0.330435	-1.29275	-2.44927	-0.27246	-0.90146	-1.77971	4.188400	0.521738	-12.1015		
iso-Propanol 4	0.9855	0.65797	0.043478	-0.22609	0.736229	-1.13913	0.263763	0.165215	-0.63768	0.576813	0.011597	0.402901	-0.31883	0.521744	-1.3971	-0.23768	0.368111	-0.02319	0.037681	-1.08986	1.49855	-0.30145	0.06087	0.61739	2.997101	-0.07536	-8.88695		
iso-Propanol 5	-0.73913	0.26667	0.301449	0.434784	0.199997	0.037674	0.298538	0.507274	-0.17101	0.1536224	-0.71594	0.298553	0.13913	0.527534	-1.03478	-0.43180	0.278259	-0.49855	0.104348	-1.10145	-0.1913	0.924637	0.017395	-0.51304	3.698551	-0.03768	-9.85219		
Styrene T1	-0.42319	0.985504	0.904348	0.620285	0.872467	0.049271	0.373917	0.289856	0.089859	-0.25508	0.376816	1.672462	-0.88406	0.713043	-3.34493	-0.209565	1.605797	-1.18841	0.556552	-2.87536	-5.53914	4.588409	-15.1826	-21.4261	71.15652	54.91015	-103.229		
Styrene T2	-0.20896	1.524639	1.34203	0.376816	0.524643	0.376816	0.34494	0.533333	0.382599	-0.30144	0.45507	0.602898	-1.29854	0.976807	-6.25797	2.170121	-0.35073	0.585507	-1.63189	-0.25965	3.794205	-16.5884	-20.4058	72.76521	56.17101	-107.078			
Styrene T3	-2.74493	1.524635	0.855072	-0.57681	0.089589	-0.0029	-0.53912	0.057968	-0.22029	0.73914	-1.10725	0.110416	-1.79131	-0.10725	-0.58209	-1.63188	0.652176	-0.62898	0.605797	-1.7942	7.67825	2.765282	-19.3971	-17.8696	68.67232	53.25797	-98.7826		
Styrene T4	-2.26666	0.698551	1.171015	0.110138	-0.18262	-0.29565	-0.49855	0.165215	0.50145	0.420288	-0.05797	0.173912	-0.95363	0.434784	-4.65508	-1.75073	1.73333	-0.38551	0.915942	-1.73333	-6.32175	4.286942	-20.1855	-19.1768	69.26666	54.58841	-98.2145		
Styrene T5	-1.64928	1.52174	1.171014	-0.26666	0.704346	-0.69566	-0.22899	-0.21159	1.513046	0.081161	-0.11305	0.684059	-0.75942	0.359421	-6.82609	-1.14493	1.289856	-0.51598	1.191304	-2.02898	-7.1942	3.915955	-20.5797	78.32461	62.29855	-102.907			
p-Dichlorobenzene 1	-0.35942	0.194202	-0.01449	-0.30435	0.095642	0.211594	0.272461	0.278259	0.202896	-0.55362	-0.6087	-0.44927	-0.69275	0.84639	-0.04347	-0.67536	0.118835	-0.15073	0.113043	-0.68116	-2.40001	-0.11595	-0.165797	-1.75652	5.626087	1.779709	-13.3652		
p-Dichlorobenzene 2	-0.55362	0.098553	0.646377	0.176804	0.304337	0.457977	-0.11885	0.265962	0.495651	0.521736	-0.24348	-0.82898	0.50145	-0.6087	-0.96522	-0.33913	-0.34203	0.315942	-1.17681	-0.547478	0.543784	-1.69656	-3.54493	6.513043	2.573914	-14.571			
p-Dichlorobenzene 3	-1.06667	0.657974	0.626087	-0.13045	0.162333	-0.37682	-0.22319	0.113045	1.399994	0.226089	-0.57681	-1.03188	0.072464	0	-0.288406	-0.29565	0.608696	-0.37681	0.17971	-0.86956	-2.3826	-0.12174	-0.96231	-3.28696	5.97681	1.527534	-15.4319		
p-Dichlorobenzene 4	-1.24059	0.315941	-0.06377	-0.52174	-0.31885	-0.11014	-0.58841	0	0.961809	-0.73334	0.13913	0.063766	-0.39421	-0.18552	0.214493	-0.414497	0.310143	0.455072	0.150725	-0.63189	-0.260807	0.292755	-2.01739	5.133331	1.84058	-13.4377			
p-Dichlorobenzene 5	-1.42899	0.991306	0.33913	0.579712	-0.57681	0.223175	0.098557	0.886955	1.443481	-0.22899	-0.24348	0.159146	-0.86667	-0.0029	-5.5884	-0.22029	0.562317	-0.104638	0.655072	-1.30145	0.290434	0.773926	-2.01738	-0.27536	6.631882	2.4058	-14.6985		
Acetone 1	-1.42899	0.82029	0.173913	-0.06957	0.602905	-0.44928	-1.52754	0.550728	-0.79421	-0.15071	-0.12174	0.284058	-0.44348	-0.56522	1.144928	-0.4	0.715942	-0.13044	0.110145	-1.22029	1.220291	0.965225	-1.82318	-4.11304	8.901451	3.614491	-23.1275		
Acetone 2	-0.69856	0.228985	-1.11015	-0.05797	-0.31015	0.307674	0.368111	0.084061	-0.66667	-0.4	-0.17391	0.040573	-0.2	-0.10145	-0.87826	-0.01739	-0.53333	1.437681	0.118843	-2.15073	-0.07825	-2.08116	-4.10145	9.12753	3.991306	-23.6725			
Acetone 3	-1.22029	0.347824	-0.04638	0.026736	0.263736	0.049271	0.214493	0.185501	0.53624	-0.09566	-0.36232	0.70145	0.36232	0.3	2.649277	0.306666	-0.3971	0.31884	-0.10145	0.075362	-5.43768	7.846378	3.185509	-20.5391					
Acetone 4	-0.95943	0.878262	-0.11304	-0.41159	-0.46086	0.026093	-0.457988	0.197098	0.626099	-0.85507	0.591309	-0.24928	-0.02319	-0.47247	-0.18551	0.237679	1.115944	0.373913	0.075362	-1.17391	-0.11595	0.298553	-1.62609	3.04035	10.0028	4.802898	-25.5015		
Acetone 5	-1.15653	0.718842	-0.640584	0.150726	0.124026	0.124634	-0.68895	-0.260868	0.347832	-0.36232	-0.16811	-0.08405	0.246376	0.373917	0.008694	0.965218	-0.17392	-0.17392	-0.15073	-0.21374	-0.21159	-0.0508	-0.153622	0.446377	0.185507	-19.2667			
MEK T1	-0.18261	1.333335	0.385507	0.1075363	0.278259	0.391312	0.420303	0.252174	-0.74204	0.228989	-0.81449	0.507248	1.710121	0.513046	-1.220291	-0.56563	0.081161	0.646378	0.185507	-0.65507	0.031891	0.204481	-2.393193	-6.55942	21.34493	12.74493	-49.2087		
MEK T2	-0.52753	0.284058	-0.02029	-0.22609	0.13042	0.385513	-0.144058	0.585504	-0.37972	-0.16521	-0.057968	-0.15072	-0.55652	0.489853	-0.13623	0.695656	0.020294	0.460869	0.2	0.15073	-0.174783	0.710447	-0.30508	-7.46667	24	14.62029	-52.6058		
MEK T3	-0.59711	0.455074	0.565218	-0.36232	-0.08695	-0.105217	-0.40871	0.286957	1.12175	0.304352	-0.25507	0.466667	0.437683	0.087844	0.707253	-0.52753	0.437683	-0.24348	0.252174	-1.24928	-0.106957	1.399994	-3.0058	-6.2087	22.68985	13.12754	-50.3478		
MEK T4	-0.46956	0.330433	0.771014	0.182602	-0.3913	0.32753	0.657974	0.411591	-0.25217	0.689547	0.234779	0.620285	0.788406	-0.48693	1.202896	-0.3913	0.423187	0.298552	0.313043	-0.10145	0.488953	-0.21449	-2.33333	-5.50145	19.82896	11.42029	-47.3391		
MEK T5	-0.84638	0.260872	-0.22029	0.249268	0.692764	-0.09276	0.237671	0.26667	0.26088	0.043488	0.376816	-0.23188	-0.2	-0.08696	0.513046	-0.505797	-0.45449	0.174381	0.10459	-0.41159	0.275362	-1.0058	-0.153622	0.44928	-3.55652	-6.90145	26.16522	15.81739	-55.9623
Limonene 1	-0.94782	-0.62029	-0.75942	-1.69565	-2.37392	-2.83189	2.875366	2.669571	4.437675	-0.36522	-0.6058	0.281158	-0.16232	-0.06957	-0.09565	-1.2753	0.046379	-0.74493	-0.02889	-0.88696	-0.69565	1.495651	-3.51885	3.11884	5.417389	2.205799	-12.6551		
Limonene 2	0.460876	0.834785	0.13913	0.547821	0.347824	0.484062	0.269562	0.7246																					

	R10	G10	B10	R11	G11	B11	R12	G12	B12	R13	G13	B13	R14	G14	B14	R15	G15	B15	R16	G16	B16	R17	G17	B17	R18	G18	B18				
ethyl acetate 1	-0.01739	-2.85217	-0.15362	3.77971	1.950722	-27.3855	5.881165	2.449265	-0.55362	18.66377	14.204057	-5.90145	9.431885	7.45507	-3.09275	0.014933	-1.07246	-3.829	0	-1.68115	-3.82608	0.489853	0.255081	0.066666	-0.56522	-0.29855	3.701447				
ethyl acetate 2	0.046377	-2.18551	0.373917	0.133333	1.136238	-21.4377	6.199997	2.608704	-1.73043	18.52173	13.04639	-5.27247	8.162315	7.176811	-2.7334	-0.0029	-1.04927	-1.64348	0	-1.83189	-2.59419	0.249283	0.049271	-0.06957	-0.6348	-0.03478	2.866669				
ethyl acetate 3	0.113043	-1.9884	0.269569	3.228985	0.834778	-22.6841	5.562317	2.599991	-1.32464	16.47827	12.3855	-5.17681	8.252174	6.672466	-3.06667	0.04058	-1.53043	-3.61159	0	-2.13913	-3.19421	-1.07101	0.057248	-1.32753	-0.09854	0.2512174	2.379707				
ethyl acetate 4	-0.13623	-3.14783	0.910408	3.994203	1.055069	-23.2087	5.504349	2.292755	-1.93044	17.73624	14.12175	-5.9971	9.014488	7.052174	-2.42319	0.008696	-1.01739	-1.76231	0	-1.88696	-1.08986	0.1884	0.371002	1.617386	-1.32463	0.315941	3.684059				
ethyl acetate 5	0.123217	-2.16736	0.29383	3.519594	0.909908	-24.7256	6.062926	2.83399	-1.44385	17.96132	13.50019	-5.64272	8.99487	7.272988	-3.34267	0.044232	-1.66817	-3.93663	0	-2.33165	-3.48169	-0.1864	0.5529	-1.44701	-0.10741	1.36487	2.593881				
iso-Propanol 1	-1.08696	-3.35942	0.162323	1.142029	-1.02888	-13.8899	4.113037	1.530426	-1.22899	9.005798	6.573914	-3.67247	6.466667	5.124641	-2.10435	0	-1.17101	-2.40001	0	-2.4058	-2.26956	0.162308	0.582596	-1.44638	-0.33334	-1.03188	3.515942				
iso-Propanol 2	-0.09565	-3.49855	1.782608	-0.01739	-3.72464	-8.66376	2.539139	1.58551	-0.97971	7.304352	5.805801	-3.67826	6.443481	4.431885	-2.77971	0.121739	-1.17101	-1.73044	0	-1.66087	-1.93044	0.698563	0.747833	0.371002	-1.71304	-2.65797	3.211594				
iso-Propanol 3	-0.24348	2.61159	2.324638	0.333333	-1.6	-9.89856	2.423187	0.084061	-0.83768	6.347824	5.197098	-4.08985	5.591301	4.881157	-1.73913	0.04058	-1.59131	-2.96811	0	-1.77971	-0.22609	0.791306	0.614487	1.568115	0.90434	0.478264	4.423191				
iso-Propanol 4	-0.0058	-3.2	2.110146	0	-2.95073	6.32173	2.278259	0.368118	-1.83189	5.382614	4.744934	-3.09855	5.90435	4.472466	-1.4087	0.014943	-1.66377	-3.03189	0.008696	1.71304	-1.4783	0.103769	1.22319	0.985504	1.50145	0.53919	2.646378				
iso-Propanol 5	-0.06087	-3.43768	2.269569	0.026087	-1.83188	-9.10724	2.889862	8.13913	6.655075	-3.14493	6.124634	4.545493	-1.8029	0.02029	-1.90725	-1.93913	0.017391	-2.09565	-2.28406	0.785507	0.89566	-0.46957	-0.87827	-0.84348	3.765217						
Styrene T1	4.672463	10.46667	-53.9623	125.2638	45.18261	-99.5275	2.86087	2.733322	0.675362	9.67247	9.605804	-1.50145	21.71304	21.67246	-6.55942	0.161791	-0.57681	-20.2145	3.97971	-4.58551	-11.3739	0.689865	1.046371	-0.17102	0.579712	0.008698	0.89856				
Styrene T2	2.771014	9.452171	-56.7217	99.4174	44.92175	-104.429	2.936234	3.55072	-0.03768	11.1797	9.82608	-3	18.18841	18.56812	-6.50145	0.176812	-1.33913	-20.0783	0.005797	-4.32464	-11.8	1.77391	0.756531	0.466675	0.075363	0.971012	2.634785				
Styrene T3	1.527536	6.460869	-53.2406	99.23769	42.22028	96.4609	3.878265	2.739136	-1.32753	6.594208	6.962311	-3.42899	16.68116	17.54203	-0.20319	0.104348	-1.55072	-2.25449	0.110145	-5.49275	-13.3188	-0.32753	-1.20001	-1.8058	0.828979	0.536322	0.3043476				
Styrene T4	1.901449	7.15942	-52.913	124.1391	50.68115	-102.377	2.73912	3.872467	-2.15942	7.414505	6.788406	-1.51014	17.0029	18.1942	-4.47537	0.295652	-0.83768	-23.5826	0.692754	-4.64638	-13.8493	0.985504	0.353622	-0.83768	0.542038	2.13188	2.684055				
Styrene T5	4.828985	11.63189	-62.229	108.7681	46.16522	-98.8812	4.249283	3.750717	-1.62608	9.518829	6.94783	-2.75073	19.67825	21.46377	-5.12174	0.1426087	-0.62609	-23.4696	0.205797	-5.15942	-12.9246	1.368118	1.055084	-0.72464	1.249264	-0.61449	1.840584				
p-Dichlorobenzene 1	-0.11884	-3.04927	-2.84927	6.704348	1.394203	-17.2348	-0.22319	1.646378	2.857971	2.617386	-2.84348	8.524635	9.171013	-0.68116	0.115942	-1.2029	-3.05797	0.113043	-1.88406	-3.33623	-0.39131	1.698547	-0.53914	-1.83478	0.831886	4.626091					
p-Dichlorobenzene 2	-0.15073	-1.89565	-8.12174	7.103403	1.336235	-20.7971	-0.07536	0.153625	-1.35942	6.552176	2.933334	-3.04927	9.571014	9.504349	-0.968117	0.118841	-0.74493	-2.97102	0.118841	-1.29565	-1.93913	0.373917	0.142088	0.571014	0.284058						
p-Dichlorobenzene 3	-0.0087	-2.64348	-3.42899	6.936233	0.571014	-15.629	0.107254	0.272461	0.269562	3.600006	2.910141	-1.96522	7.571014	6.965218	-0.98841	0.011594	-1.18261	-3.04057	0.005797	-1.70145	-1.73622	1.098541	-0.17101	0.315933	-1.06377	0.631882					
p-Dichlorobenzene 4	-0.08986	-2.75362	-1.24348	5.973913	-0.25507	-13.7275	-0.44058	-0.0174	0.837681	2.304352	1.660885	-1.56283	5.968117	5.168111	-1.16811	-0.04058	-1.45507	-3.20001	-0.01739	-2.43484	-1.73042	-0.52754	0.202896	-0.29565	-0.92464	0.321739	0.4550724				
p-Dichlorobenzene 5	-0.17101	-1.80229	5.50725	6.397101	0.82189	-21.4522	0.115936	-0.84045	0.075363	2.576813	1.953629	-1.74783	8.591309	12.56526	-0.77681	0.017391	-1.57101	-3.42609	0.460087	-1.74493	-2.62898	-0.03188	-0.21739	-2.08116	0.55653	1.226089	3.86087				
Acetone 1	-0.10725	-2.62319	-4.89565	8.388406	1.721733	-24.6696	0.823181	-0.09856	-1.72464	2.524643	1.669571	-4.57971	8.915939	7.881157	-3.24058	0.028986	-1.68116	-4.18552	0	-2.17971	-2.78841	0.356522	0.350723	-1.28986	-0.09566	2.518845	2.078262				
Acetone 2	-0.15942	-2.31035	-4.6058	7.208696	1.655067	-24.6435	1.031876	-0.48117	-1.66667	4.211594	2.973907	-6.028899	7.484055	7.28515	-2.78551	0.031884	-1.2	-1.8058	0.023188	-2.55362	-3.1826	-0.14203	0.065653	-1.31885	2.474782	2.41449					
Acetone 3	-0.0058	-2.72464	-4.86667	7.655073	1.315941	-19.4551	0.05948	0.09859	-1.25127	3.110153	2.797104	-1.25797	7.052177	6.973915	-3.36522	0.008696	-1.2087	-2.06957	0.043478	-2.25797	-2.25797	-0.69275	-0.23769	-0.86377	-0.2058	2.385513	1.107246				
Acetone 4	-0.23768	-2.95652	-5.58841	11.33623	1.942032	-26.8725	0.782608	0.191299	-0.20869	3.74202	3.524628	-2.23474	8.713043	7.907242	-2.4	0.046377	-1.37102	-3.3942	0.104348	-1.37102	-1.32463	0.402908	-1.11015	-0.94203	-0.0058	1.057968	3.31884				
Acetone 5	-0.36522	-2.82898	-3.79131	5.313044	1.881165	-21.3565	1.678268	0.588409	0.130436	4.092758	2.692749	-2.86377	7.771019	7.688957	-1.25942	0.02029	-1.6	-2.69275	0.011594	-1.85507	-1.77101	0.031876	0.269562	0.472458	-0.24347	0.860863	4.463768				
MEK T1	-0.17681	1.64637	-9.77391	23.25507	8.942032	-44.5884	1.434466	1.168121	-0.12464	5.289856	3.884048	-2.51015	4.814499	4.710447	-5.73333	0.005797	-1.37101	-1.73101	-5.73333	0.005797	-1.37101	-1.73101	-5.73333	0.005797	0.863766	0.105746	0.050702	0.788406	1.072464	0.988404	2.556519
MEK T2	-0.15652	-1.29275	-13.1797	29.27826	10.94782	-48.2319	0.600006	1.307251	-0.33913	5.869553	4.649277	-3.92175	11.86087	11.17971	-3.36812	0.107246	-1.23478	-0.506957	0.428895	-2.89886	-3.51305	-0.65650	1.260864	-0.52174	-0.20869	1.333331	1.834785				
MEK T3	0.002899	-1.81449	-10.4087	19.08986	8.417397	-46.9681	1.492752	2.055069	-0.16522	5.901443	5.886948	-1.76811	12.50725	13.14783	-4.24348	-0.01159	-1.6116	-4.39131	-0.05217	-3.26667	-3.829	1.342026	-0.11015	0.36232	0.350723	0.599998	3.631882				
MEK T4	-0.07826	-1.18551	-8.65217	24.76232	8.927536	-20.57356	41.42023	1.452179	-0.76812	5.678253	4.971008	-2.28406	11.34782	11.49855	-3.01739	0.04058	-1.37681	-5.0116	1.217391	-1.79131	-2.42319	0.846375	0.363243	0.568115	-0.33624	0.518878	2.402901				
MEK T5	-0.05507	-0.49565	-11.3536	20.42319	9.301445	-50.3072	1.53334	1.249283	-1.35072	4.086061	11.23319	11.93333	-3.99131	0.40586	-1.67246	-4.95073	0.533333	-2.0058	0.349855	0.231888	0.159409	0.36232	0.255066	0.2565216							
Limonene 1	0	0.45797	0.313049	8.275364	2.533333	-12.4232	2.269562	1.84639	-2.37971	3.649277	3.17392	-1.11305	4.94783	9.049286	-2.0087	0.695653	-1.02319	-0.0116	0.924638	-1.46956	-0.70725	0.942032	0.22319	1.008698	-0.25797	1.313049	-1.057979				
Limonene 2	-0.04348	0.811596	-0.43189	10.57391	3.272469	-15.5159	1.559433</																								

	R19	G19	B19	R20	G20	B20	R21	G21	B21	R22	G22	B22	R23	G23	B23	R24	G24	B24	R25	G25	B25	R26	G26	B26	R27	G27	B27
ethyl acetate 1	0.672462	0.489855	-0.35652	-0.26956	-1.0087	0.585506	0.342026	0.382599	0.747833	-0.50433	-0.89854	-1.9913	0.365219	0.075362	-0.02609	0.147827	-0.54202	-1.15652	-0.62029	-0.23189	-0.90145	-0.02899	-0.1826	0.269566	0.176819	-0.64058	-0.06957
ethyl acetate 2	0.47826	0.744927	-0.44927	-1.04637	0.347824	-0.37391	0.162029	0.02899	0.2371017	-0.26086	-0.34782	-0.84348	0.492752	0	-0.34203	0.237671	-0.83189	-1.31884	-0.52754	-0.44928	-0.42319	-0.25797	0.034782	0.298551	0.736237	-0.15073	0.1846375
ethyl acetate 3	0.347824	0.359421	-0.56232	-0.77681	0.098557	-0.66667	0.167401	-0.56232	0.142029	0.27536	-1.26376	-1.23768	-0.0058	-0.01449	-0.4	0.055069	-1.0029	-1.32464	0.489853	0.22899	-0.91304	0.13913	0.243477	-0.67246	-0.68985	-0.91596	-1.23769
ethyl acetate 4	0.831882	0.518841	-0.31884	-0.34203	-0.40289	-0.24638	-0.0174	0.162323	0.704346	0.840576	-0.91594	-0.32464	0.243477	0.002899	-0.15073	-0.19132	0.072464	-1.35942	1.130447	-0.04058	-0.84058	0.286957	0.104347	0.165217	-0.05217	-0.24059	-0.1971
ethyl acetate 5	0.379128	0.391769	-0.61293	-0.84672	0.107427	-0.72667	0.672967	-0.61293	0.154812	0.300142	-1.3775	-1.34907	-0.00632	-0.0158	-0.436	0.060025	-1.09316	-1.44386	0.53394	-0.2496	-0.99522	0.151652	0.26539	-0.73298	-0.75194	-0.99839	-1.34908
iso-Propanol 1	0.281158	0.402899	-1.07536	-0.03769	-0.3884	-1.04058	-0.32755	-0.23769	1.098541	0.576813	-1.20869	-0.03478	0.742027	0	0.049275	0.27536	-1.33624	0.611595	-0.23769	-0.69566	-0.68695	0.820282	0.208694	-0.09275	0.214493	-0.62029	0.884048
iso-Propanol 2	0.794201	-0.11884	-0.83769	0.715942	0.121735	-1.53333	0.831894	1.736221	1.011581	1.576813	0.252182	-0.8058	0.715942	0	-0.45217	0.208694	-0.75652	-0.48116	1.356522	-0.68986	-0.74493	1.472473	0.649277	-0.62609	0.953629	0.434784	-0.11594
iso-Propanol 3	0.857971	0.527535	0.69566	-0.41159	-0.60291	-0.47826	0.185516	-0.35072	0.2568115	-0.57681	-0.47246	-0.08985	0.226082	0	-0.16232	-0.45796	-0.60229	-0.2087	0.173904	0.568123	1.19131	0.1017395	-0.55073	0.284058	0.031891	-0.63768	-0.25217
iso-Propanol 4	0.643478	0.608696	-0.3913	0.066666	-0.13043	0.54783	-0.40869	0.14493	0.933334	0.11884	0.710144	-0.5884	0.104348	0	0.08406	-0.92174	-1.1913	0.95652	0.44928	-1.0087	0.26087	0.197113	0.391304	0.269566	0.46086	0.26088	-0.68405
iso-Propanol 5	0.524639	0.324638	-0.43768	-0.25508	0.39312	-0.0058	0.1162323	0.298553	1.597107	1.431885	-0.17392	-0.25797	1.452171	0	0.257971	-0.54782	-0.83478	-0.49565	0.504349	-0.6	-0.07826	0.915939	0.02892	0.402899	0.356522	0.234787	-0.25798
Styrene T1	0.724632	1.336233	0.086952	1.802902	0.142029	0.046379	0.579712	0.55072	1.220291	-0.0174	0.272476	-0.62318	1.127533	0.237681	0.040579	0.460876	0.347839	-1.17391	1.214493	0.324638	-0.28116	0.98262	-0.30145	0.599999	0.736237	0.12175	0.857971
Styrene T2	0.515945	1.176812	-0.07246	0.878265	1.142029	-1.11884	0.553619	-0.09564	-0.29276	0.27536	0.342026	-1.37681	0.194206	-0.32754	-0.10725	0.310135	-1.0058	-1.81739	0.756531	0.156525	-0.82608	0.391296	-0.12463	-0.48696	0.805801	-0.48171	0.269569
Styrene T3	0.376816	0.686695	-1.8029	1.25798	-0.13623	-0.27254	-0.22239	-1.9971	0.417389	-0.75073	-0.127246	-1.79421	0.73913	-0.13913	0.165217	-0.99422	-0.21595	0.253913	-1.11014	-0.69856	0.224348	-0.8145	-0.03768	-0.11304	-0.88986	-0.129855	-0.19421
Styrene T4	0.423187	0.304348	-1.71014	1.504349	0.631882	-1.82029	-0.36232	0.249283	0.73912	-0.11594	-0.26666	-0.155363	-0.17681	-0.08406	-0.06667	-0.57101	-0.21449	-1.4	-0.75362	0.084053	-2.2029	-0.46378	0.040581	0.397101	-1.0029	-0.07536	-1.17392
Styrene T5	1.104347	0.791304	-0.15942	1.669571	0.107395	-1.6	-0.1739	0.295654	0.620925	0.211594	-0.44928	-0.87827	-0.09856	0.234783	0.562319	0.698563	-0.91884	-1.06667	0.113052	0.165222	-0.53623	-0.48695	0.597090	0.191305	-0.27246	-1.21449	-0.03479
p-Dichlorobenzene 1	0.843475	0.907246	-0.85797	-0.8145	-0.41159	-0.6	-0.20898	-0.30725	0.681152	-0.3942	-0.64638	-1.18551	-0.41159	0.449275	-0.13623	-0.64348	-0.35632	-1.91015	-0.13913	-0.30434	-1.49276	-0.51595	-0.52464	0.405796	-0.03479	-0.66377	0.078262
p-Dichlorobenzene 2	1.365219	0.426088	-0.84927	0.804054	0.22319	-0.03478	0.94783	1.87398	-0.1855	1.220291	-0.205795	-0.6	0.304337	0.150725	-0.17101	0.144928	0.13623	-0.208986	0.855072	-0.28986	-1.0058	0.365219	0.307246	0.260864	0.199997	-0.64058	
p-Dichlorobenzene 3	0.365219	0.707247	0.353622	0.837677	0.527542	-0.86087	-0.21449	-0.65218	1.397095	0.414505	-0.59421	-0.28116	0.252167	-0.02319	0.214493	0.373917	-0.106377	-0.91594	0.59131	-0.58261	-0.46667	-0.04347	-0.13623	-0.87246	-0.88985	-0.2058	
p-Dichlorobenzene 4	0.655075	0.697255	-1.24058	-0.17102	-0.8145	-0.148696	-0.30145	-0.31015	-0.06087	-0.8232	-0.95361	0.075363	0.571014	0.423189	-0.0087	-0.37682	-0.84348	0.48407	-0.45217	0.28116	-0.09564	0.220291	0.190473	-0.202941	0.040573		
p-Dichlorobenzene 5	1.086952	0.750723	-0.08984	2.495667	0.356522	-0.87826	0.211594	-0.47537	0.014496	-0.00578	0.237686	0.62608	-0.28986	0.246377	-0.08116	0.057968	-0.17826	-1.13043	0.095657	0.55362	0.066666	0.072464	-0.059798	-0.08116	-0.1855	-0.3924	0.330429
Acetone 1	0.452171	1.037682	-1.49855	-2.35652	-0.93333	-0.1913	-1.0087	-0.40581	0.768112	-0.36522	-0.34782	-2.29565	0.852173	0.17971	-0.04348	-1.17972	-1.42609	-2.18261	0.400009	-0.64058	-1.62029	0.379175	0.304344	0.423188	-1.34204	-1.15363	-0.48695
Acetone 2	0.605804	1.44348	-0.35652	-1.72752	-1.63478	-0.0029	-0.66666	0.40579	1.721741	-0.48695	-1.06378	-1.6116	0.107239	0.197101	-0.4	-0.54782	-1.2058	-2.6087	-0.39314	-0.95362	-0.87536	-0.0058	-0.04058	0.356522	-0.88694	-1.15653	0.108405
Acetone 3	0.342026	0.878262	-0.74204	0.40869	0.37392	0.036766	0.36232	-0.31595	0.194931	-0.22029	0.055069	-1.8116	0.631882	0.35942	-0.04928	-0.63188	-0.28046	-1.65797	0.71594	-0.46957	0.47826	0.417389	0.133331	0.18261	0.09721	-0.30767	0.105968
Acetone 4	0.704346	0.105073	-1.01739	-0.86667	0.84927	0.02319	0.153625	-0.46376	0.282989	0.089859	0.936234	-1.64348	0.400009	0.197102	-0.23478	0.944931	-0.50435	-1.71304	-0.45218	-0.04927	-0.54783	-0.28696	0.031883	0.443478	-0.09564	0.159424	-1.0087
Acetone 5	0.620285	0.89855	-0.72754	-0.70145	-0.1855	-0.14784	-0.20724	0.147827	0.495651	0.492752	-0.97101	-1.25217	0.544937	-0.17681	-0.10275	-0.24927	-0.136522	-0.73913	-0.68407	-0.43768	-0.02609	-0.15942	0.391306	-0.82608	-0.87247	-0.67827	
MEK T1	0.828979	0.6	-0.33623	-1.14493	-0.36232	1.484058	-0.43189	-0.33333	0.747833	0.413885	-0.011597	-0.97971	0.86087	-0.11494	-0.0058	-0.06377	0.298553	-0.35652	-0.70435	-0.20869	-0.62899	-1.13913	-0.04929	-0.33624	0.481159	-0.70725	-0.272461
MEK T2	0.388405	0.953623	0.31304	-0.27246	-1.12463	-0.46087	-0.10239	0.361818	0.852173	-0.45216	-0.04349	0.81739	0.269562	0.182609	-0.22609	-0.12753	-0.73624	-0.24348	-0.3768	-0.22899	0.846538	-0.13043	0.153623	-0.14783	-0.88115	0.055069	-0.13913
MEK T3	-0.02899	0.921738	0.188408	-0.77791	-0.59131	0.165218	-0.18262	-0.12174	1.895645	0.286957	0.113037	-1	1.069565	0.153624	-0.3971	-0.09276	0.078262	-1.4087	-0.10434	-0.32174	-1.14203	-0.13623	0.211594	0.321739	-0.42609	-0.32173	
MEK T4	-0.15073	0.178622	-0.35072	-0.68407	-0.65799	0.03478	0.402908	0.040573	0.626083	0.518829	0.197113	-0.86377	0.495651	0.005797	0.347826	-0.49855	-0.21159	-1.56232	-0.15363	-0.77971	-0.96781	0.368103	0.257965	-0.24348	0.542023	-0.16522	0.107254
MEK T5	-0.05797	0.704348	0.533333	-0.28696	-0.71884	-0.47826	-0.13623	-0.24348	0.08976	0.571014	-0.05219	-0.14869	0.192753	0.17971	0.301449	-0.26376	-0.192174	0.428986	-0.86957	-0.13913	-0.09566	-0.25217	0.23768	-0.28696	-0.69855	0.078262	
Limonene 1	0.828987	-0.58841	-1.65508	-1.15942	-0.59419	0.304352	-0.28696	0.640579	0.521744	0.199997	0.481155	1.168114	0.17392	-0.37102	-0.27246	-0.24638	1.188416	-0.160687	-0.22899	0.159424	-0.29565	-0.14783	0.722091	0.568119	-0.12174	0.162323	0.91304
Limonene 2	0.084061	-0.28989	0.765213	4.878265	1.44928	-1.21159	0.246384	0.794205	4.544922	0.962311	-0.76811	-0															

	R28	G28	B28	R29	G29	B29	R30	G30	B30	R31	G31	B31	R32	G32	B32	R33	G33	B33	R34	G34	B34	R35	G35	B35	R36	G36	B36	
Benzene 1	-0.45797	-0.38551	-1.21159	1.063766	0.095654	0.542023	-0.22029	-0.2	0.292755	-0.14783	-0.15653	0.63768	-0.70435	-0.3826	0.173904	3.25798	0.55072	0	0.86087	0.704346	0	0.014494	-0.94783	-2.11304	-0.01739	-1.62319	-1.68115	
Benzene 2	-0.41159	-0.21449	-0.71304	0.339127	-0.03188	-0.03188	0.440567	-0.91304	-1.35072	-0.06957	0.852173	-0.64058	-0.56522	-0.3913	0.118835	1.715942	0.124649	0	-0.35652	-0.2029	-0.45217	-5.1768	0.626087	-1.02609	-2.53623			
Benzene 3	-0.47246	-0.35362	-0.98551	-0.03478	-0.17971	-0.51883	0.617386	0.304352	0.927536	-0.61739	-0.71594	-0.90726	-0.32175	0.234787	-1.28406	2.942637	0.782608	-0.04638	0.324631	-0.2029	-0.10145	0.168114	-1.51594	-0.93044	-0.22609	-1.99131	-1.92754	
Benzene 4	-0.3942	-0.35362	-0.56812	1.144928	0.481159	-0.28696	0.028992	0.150726	-0.14493	1.014496	-0.54204	0.391296	0.611603	-0.0087	1.150726	3.342026	0.608688	0	1.017395	0.159424	-0.26377	0.226088	-1.26377	-2.8087	0.057972	-1.82898	-1.90725	
Benzene 5	-0.51499	-0.38545	-1.0742	-0.0379	-0.19588	-0.56552	0.672951	0.331744	1.011014	-0.67295	-0.78038	-0.98891	-0.3507	0.255918	-1.39962	3.187854	0.853043	-0.05055	0.353848	-0.22116	-0.11058	0.183244	-1.65237	-3.19417	-0.24644	-2.17053	-2.10101	
Toluene 1	0.086957	-0.41159	-0.71015	0.634781	-0.06087	-0.49275	-0.87537	-0.52754	-1.11014	-0.34493	-0.3913	-0.42609	0.417389	-0.22609	-1.34493	1.730438	-0.56812	0	0.223175	0.092743	0	-0.0029	-1.36812	-3.50145	-0.7884	-2.40579	-1.33913	
Toluene 2	-0.24058	-0.55362	-1.25797	0.437668	-0.49855	-1.25508	0.643478	1.182602	-0.629	0	0	0.542038	0.460876	-0.45798	3.110153	0.628983	-0.07826	0.133347	0.576813	-0.06087	0.046377	-1.58551	-2.75943	-1.38261	-1.9913	-1.09276		
Toluene 3	-0.23478	-0.07536	0.246376	0.846375	-0.12174	0.794205	0.036766	0.318848	-0.41451	0.51303	0.295654	-1.1971	0.057983	-0.30145	0.008688	0.620285	-0.21159	-0.28116	0.77681	0.568115	-0.02029	0.275262	-1.44058	-2.04637	0.052174	-1.535362	-1.25217	
Toluene 4	-0.11884	-0.06957	-0.93333	0.1089859	0.246376	-0.50435	-0.30725	0.25507	-2.1826	0.107254	0.97681	0.550735	-0.44058	-0.01738	0.25798	3.10144	-0.03479	0.44058	-0.25797	0.831879	0	0.28116	-1.41203	-3.08695	0.104349	-1.52754	-2.22319	
Toluene 5	0.008696	-0.22609	-0.29565	0.1008698	0.449276	-0.76521	0.060867	0.026093	0.205795	1.371017	-0.1768	0.69855	0.200012	0.373917	1.533325	5.788406	1.153625	0	0.875366	0.884048	0.008696	-0.07536	-1.61739	-3.25797	-0.43189	-1.953562	-1.64638	
HCHO 1	-0.43768	-0.15942	0.031891	0.652176	0.536232	0.431885	1.211594	0.402893	0.962326	1.353622	0.657974	-0.38551	1.014496	0.46666	0.428986	8.03479	0.182617	-0.02609	-0.2	1.237686	-0.22319	1.034782	-0.8029	-9.33623	0.939129	-0.98261	-4.1768	
HCHO 2	-0.36812	-0.1971	-0.10986	1.115952	0.095654	0.434784	0.110153	0.168121	-0.48695	0.515945	-0.15653	0.197098	0.113045	0.718842	-0.56522	6.605789	-1.67247	-0.0058	0.263763	0.855072	-0.2029	0.672321	-1.26087	7.74204	0.663769	-1.10145	-4.75942	
HCHO 3	-0.50435	-0.85217	-1.33624	-0.85217	-0.13044	-0.28896	-0.206957	-1.57681	0.524628	-0.31039	0.026093	-0.105508	-0.65797	-0.64058	-2.1913	4.936234	-2.34493	0	0.424899	-0.50725	-0.56812	0.799999	-3.37971	-20.3159	0.611595	-2.76811	-8.09895	
HCHO 4	-0.34783	-0.12754	-0.83769	0.562317	-0.11594	-1.68407	-1.40579	0.385513	-0.1768	-0.24927	-0.58261	-0.8116	-0.69565	0.426086	0.226074	3.481155	-1.36522	0	-0.19421	0.608704	0.014493	0.869568	-1.48406	-11.1797	0.113041	-2.74783	-8.36232	
HCHO 5	-0.1913	-0.42609	-1.1884	-0.11015	-0.24638	-0.22319	0.156525	-0.86087	-0.91014	-1.28116	-0.60001	1.469574	-0.84348	-0.217392	0.495723	-1.636376	0	0.474827	-0.09274	-0.26957	0.846375	-2.30725	-15.1826	0.698551	-1.65218	-6.89565		
1,1,1Tchloroethane 1	-0.44058	-0.35362	-1.37681	-0.3681	-0.08406	-1.67535	-0.86377	-0.57581	-0.24347	-0.78551	-2.27536	-2.97972	-0.8058	-1.11595	-0.47536	2.571014	0.078262	0	-0.157971	-1.1971	-0.17101	-0.51884	-2.55652	-12.7362	-0.69855	-1.86667	-5.75942	
1,1,1Tchloroethane 2	-0.2087	-0.1971	-1.11015	-0.21159	0.495651	0.710144	0.252182	0.475357	-0.07536	0.078263	-2.90726	-1.75363	-0.58839	-0.18552	-0.21159	3.492752	2.44928	0	0.106681	1.973923	-0.28694	0.008694	-2.8	-13.3507	0.101448	-2.13913	-6.40869	
1,1,1Tchloroethane 3	-0.5942	-0.58551	-1.65507	0.408707	0.536233	-0.84927	-0.42319	-0.28986	-0.25797	-1.07972	-1.30435	-2.14493	-0.90146	0.342041	-1.16231	3.559418	1.428986	-0.35942	-0.59711	0.785507	-0.91304	0.255074	-2.56812	-11.1478	0.446377	-2.0058	-5.87827	
1,1,1Tchloroethane 4	-0.91594	-0.68116	-0.57681	-0.21159	0.101448	-0.11594	0.382599	1.32753	1.371017	-1.05217	-0.21577	-0.28058	-0.15653	-0.50725	-0.97391	4.246368	1.892746	-0.15942	-1.66667	0.156522	-0.62899	-2.57391	-12.6522	-0.02609	-1.79421	-5.74493		
1,1,1Tchloroethane 5	-0.51884	-0.15942	-0.35942	-0.95073	-0.11884	-1.17102	0.8116	1.397095	1.597092	-1.53912	-4.30144	-3.68697	-0.24927	-0.28116	-0.50725	5.417389	1.86377	-0.17391	-1.35362	-0.0116	-0.02609	-0.0508	-2.17101	-13.287	0.144928	-2.1913	-6.18261	
p-Xylene 1	-0.98261	-0.43189	-0.97971	0.904343	-0.08696	-0.93623	-1.29274	-0.72754	0.133347	0.623184	1.269562	0.944916	-0.77391	0.646378	-1.08696	3.881165	0.608704	0	-0.66377	0.171005	-0.07536	-0.57391	-3.44058	-14.2985	-0.68985	-3.89565	-8.55363	
p-Xylene 2	-0.4087	-0.37391	-0.94493	-0.24927	-0.14942	-1.49855	-0.07246	0.753616	-0.42319	-2.31305	-2.34203	-0.16232	-0.50145	-0.44927	0.251282	2.805801	0.4054807	0	-0.11304	0.895645	-0.53623	-0.23478	-2.66087	-14.8058	-0.55652	-3.02029	-9.95363	
p-Xylene 3	-0.58841	-0.4058	0.68406	0.098557	0.199997	0.43768	0.507248	0.918854	0.373917	-1.62898	-0.26086	0.785507	-0.57363	-0.464637	3.32753	1.107254	0.255081	0.0255081	0.761827	-0.86377	-0.54203	-2.72174	-14.8986	-0.24058	-2.66067	-7.43768		
p-Xylene 4	-0.72754	-0.23478	-0.96232	1	-0.27536	-0.09276	1.979721	0.179703	1.124634	-0.104639	-0.46666	-0.424029	0.217392	0.023193	0.907242	3.228989	0.1057968	-0.06957	0.214493	1.692749	-0.37681	-3.63769	-14.7623	-0.16232	-7.2029			
p-Xylene 5	-0.52174	-0.47826	-0.77681	0.828995	-0.18551	0.698563	-0.88696	-1.29276	0.831894	-0.03189	0.246384	-0.03767	-0.46957	0.257965	0.208959	0.834793	-0.01159	0.71594	0.394211	0.669565	0.223186	-2.36811	-12.742	0.488857	-2.67826	-4.97102		
p-dichlorobenzene T1	-0.45217	-0.28986	-0.34203	0.405792	-0.26377	-0.94783	0.295654	-0.50145	-0.08696	-0.12175	-0.72464	-0.492752	-0.68985	-1.37682	0.73912	3.440582	1.205795	0	-0.88985	0.805801	-0.54203	-0.50725	-3.8	-15.5217	-0.24928	-3.20869	-9.30434	
p-dichlorobenzene T2	-0.61449	-0.03189	-1.37392	0.057968	0.324638	-0.57391	-0.67827	-0.78551	0.440582	0.455078	0.957029	-0.76233	-0.017395	0.249268	0.095657	3.568115	1.805786	0	0.17392	0.718842	-0.10725	-0.51304	-13.2753	-16.0986	-0.30145	-3.86896	-8.46667	
p-dichlorobenzene T3	-0.93333	-0.52174	-1.25797	-0.0145	-0.44058	-1.33333	-0.62029	-0.35942	-0.17682	-0.10724	-0.55072	-0.3826	-0.35362	-0.08986	0.910156	3.365219	0.724644	-0.34203	-0.27536	0.773911	0.136232	0.040581	-1.33623	-11.4058	0.344929	-1.9942	-7.69855	
p-dichlorobenzene T4	-0.8029	-0.01449	-1.35362	0.579712	-0.08696	-0.8	0.005798	-0.81389	0.791303	0.020294	0.559418	0.385498	-0.657974	-0.0145	1	4.298553	0.86377	-0.91304	0.1356522	0.4840553	-0.1942	-2.81739	-11.8638	-0.22029	0.284638	-3.63562		
p-dichlorobenzene T5	-0.36522	-0.37101	-0.72174	0.562317	0.31015	-0.54204	-1.16232	0.020899	-0.65508	-0.43768	-0.68695	-1.59131	-0.51305	-0.68987	-0.42319	2.985533	1.321747	0	0.21739	-0.03767	-0.48116	-0.330437	-1.95942	-10.2348	-0.00869	-8.387369	-9.28696	
Limonene T1	0.124641	0.037682	0.031883	0.605789	-0.0174	-0.07826	0.36323	1.188416	-0.24347	-0.75652	-0.301437	-1.81448	1.382614	0.536224	0.623199	1.075363	-0.74782	0	-0.05507	0.202896	0.414492	0.275362	-0.04348	-0.97102	0.014492	0.721741	-0.47246	
Limonene T2	-0.18261	-0.53623	0.023186	0.591309	-0.33913	0.318832	-0.47246	-1.40579	-0.22029	0.124634	-0.72464	-0.08161	-0.84638	-1.2														