

Table S1. Mean (n=3) peak areas (%) and related errors of volatile compounds detected by HS-SPME/GC-MS on DVB/CAR/PDMS sorbent. Statistically significant differences among samples at $p < 0.001$ (***) or $p < 0.01$ (**), according to ANOVA. Different letters in the same row indicate statistically significant differences ($p < 0.05$) according to Tukey HSD test.

Volatile compound	Sample							ANOVA
	KPJ	KPW	KJ	KW	TW	TWKW	STWKW	
ethyl acetate	9.90±3.15 ^a	11.74±0.27 ^a	4.69±0.70 ^{ab}	15.26±0.26 ^{ac}	4.48±0.42 ^{ab}	5.81±0.11 ^{ab}	15.19±2.48 ^{ac}	**
2-methyl-1-propanol	0.40±0.03 ^a	1.52±0.12 ^b	0.45±0.16 ^a	0.51±0.05 ^a	0.70±0.25 ^a	1.25±0.03 ^a	1.32±0.28 ^b	**
3-methyl-1-butanol	2.11±0.01 ^a	17.49±0.44 ^b	1.74±0.04 ^a	8.60±0.47 ^c	12.09±0.3 ^d	12.35±0.41 ^d	12.68±0.13 ^d	***
2-methyl-1-butanol	0.88±0.06 ^a	6.92±0.27 ^b	0.5±0.06 ^a	3.10±0.24 ^c	2.81±0.12 ^c	2.99±0.17 ^c	3.34±0.05 ^c	***
ethyl butanoate	35.87±1.75 ^a	3.15±0.17 ^b	31.75±0.62 ^c	2.71±0.06 ^b	0.57±0.03 ^b	0.79±0.05 ^b	0.82±0.06 ^b	***
1-hexanol	30.33±1.35 ^a	2.26±0.07 ^b	36.87±6.83 ^a	3.61±0.14 ^b	0.16±0.02 ^b	0.42±0.02 ^b	0.64±0.13 ^b	***
3-methyl-1-butyl acetate	3.01±0.02 ^a	2.97±0.13 ^b	2.40±0.34 ^c	7.56±0.05 ^{abc}	7.21±0.31 ^{abc}	7.40±0.64 ^{abc}	2.16±0.10 ^d	***
2-methyl-1-butyl acetate	0.00±0.00 ^a	0.58±0.02 ^b	0.00±0.00 ^a	0.69±0.02 ^b	0.38±0.02 ^c	0.42±0.03 ^b	0.45±0.08 ^b	***
ethyl hexanoate	2.10±0.13 ^a	10.66±0.30 ^b	3.67±0.18 ^c	12.6±0.37 ^b	14.13±0.59 ^d	13.78±0.57 ^d	9.88±0.62 ^b	***
hexyl acetate	7.05±0.51 ^a	0.77±0.04 ^b	2.58±0.15 ^c	7.18±0.19 ^a	0.59±0.02 ^b	1.88±0.15 ^{bc}	0.00±0.00 ^b	***
nonanal	0.38±0.08	0.24±0.04	0.47±0.11	0.33±0.18	0.15±0.06	0.13±0.01	0.00±0.00	
2-phenylethanol	0.28±0.12 ^a	1.16±0.01 ^b	0.00±0.00 ^a	0.70±0.12 ^b	0.83±0.00 ^b	0.79±0.24 ^b	0.96±0.14 ^b	**
methyl octanoate	0.00±0.00 ^a	0.53±0.02 ^b	0.00±0.00 ^a	0.73±0.04 ^c	0.08±0.01 ^a	0.18±0.01 ^d	0.00±0.00 ^a	***
ethyl benzoate	2.74±0.07 ^a	0.81±0.07 ^b	2.12±0.20 ^c	0.81±0.08 ^b	0.31±0.03 ^d	0.31±0.03 ^{bd}	0.00±0.00 ^d	***
diethyl succinate	0.61±0.01 ^a	0.22±0.03 ^b	0.8±0.12 ^a	0.13±0.01 ^b	0.45±0.01 ^{ab}	0.40±0.04 ^{ab}	2.32±0.18 ^c	***
ethyl octanoate	1.20±0.34 ^a	31.8±0.29 ^b	3.67±2.03 ^a	28.08±0.73 ^{bd}	45.77±0.81 ^c	43.08±1.29 ^c	38.05±2.77 ^b	***
heptyl isobutyl ketone	1.87±0.54	2.6±0.98	7.07±3.63	2.03±0.53	0.70±0.36	0.26±0.02	4.84±0.13	
2-phenylethyl acetate	0.36±0.00 ^a	0.16±0.02 ^b	0.00±0.00 ^c	0.28±0.05 ^{ab}	0.39±0.01 ^a	0.34±0.01 ^a	0.00±0.00 ^c	***
ethyl 9-decenoate	0.00±0.00 ^a	0.49±0.02 ^b	0.00±0.00 ^a	1.73±0.00 ^c	0.20±0.00 ^a	0.64±0.03 ^b	2.74±0.14 ^d	***
ethyl decanoate	0.91±0.55 ^a	3.92±0.19 ^b	1.22±0.53 ^a	3.38±0.13 ^a	8.02±0.94 ^c	6.78±0.52 ^b	4.61±0.39 ^b	***

Table S2. Concentration ($\mu\text{g/L}$) of volatile compounds in kiwifruit wine (KW), Trebbiano wine (TW) and their blend (TWKW), and odor threshold (OT) of the volatiles, taken from literature [31,35–40].

Volatile compound	Sample			OT(mg/L)
	KW	TW	KWTW	
Acetic Acid	251000	181000	163000	200000
Benzoic Acid	187	245	259	1000
Butyric Acid	1430	705	820	173
Decanoic Acid	1350	2580	1940	1000
Dodecanoic Acid	21.5	741	144	1000
Heptanoic Acid	19	7.18	12.4	-
Hexanoic Acid	1350	1750	1640	420
Isobutyric Acid	1080	307	446	2300
Isovaleric Acid	591	427	470	33
Octanoic Acid	1630	2590	2390	500
Phenylacetic Acid	45.5	178	167	1000
Propionic Acid	881	1340	1020	8100
1,4-Butanediol	67.6	189	182	-
Butan-1-ol	16.8	14.6	14	150000
Isoamyl Alcol	4070	6650	4160	30000
1-Hexanol	851	361	459	500
1-Propanol	37900	14000	18800	306000
Isobutanol	11900	4350	5760	40000
2-Ethylhexan-1-ol	11.8	19.3	16.2	270
3-Octanol	28.2	7.11	10.3	18
2-Phenylethan-1-ol	1920	5590	4270	14000
Furaneol	137	50.1	47	5
2-Hexen-1-ol	40.3	44.5	46.2	15
(Z)-3-Hexen-1-ol	33.5	2.96	5.76	70
(E)-2-Hexenal	37.4	31.5	54.5	17
(E) 3-Hexen-1-ol	40.8	11.6	15.9	400
1-Octen-3-ol	1.01	0.113	0.085	1
3-Mercapto-1-propanol	18.2	115	79.8	-
2-Mercapto-ethanol	66.4	27.4	39.9	-
Metionol	916	771	882	1000
Acrolein	67.1	58.6	29.8	
Acetoin	882	8580	17400	150000
Dyacetyl	0.066	1.01	0.158	100
Acetovanillone	6.45	53.4	37.2	1000
3-Methyl-2,4-nonanedione	0.003	0.004	0.005	
5-Ethyl-2-furaldehyde	0.365	3.16	3.68	
5-Methylfurfural	25	0.343	4.59	20000
Furfural	51.2	34.3	10.8	3000
Vanillin	26.1	45.2	33.9	60
Acetaldehyde diethyl acetale	28	58.6	51	-
Phenylacetaldehyde	1.34	14	2.22	1
Acetaldehyde	918	1700	1380	500
Benzaldehyde	5.15	13.1	6.84	2000
N-Octaldehyde	0.672	0.419	0.497	-

Piperitone	1.22	1.08	1.11	-
Tujone	1.04	0.0023	0.0506	-
Benzyl alcohol	11.9	4.77	6.11	200000
Styrene	3.27	5.29	7.55	-
p-Cymene	1.68	0.378	0.499	11
Ethyl decanoate	41.4	365	147	200
Ethyl eptanoate	0.61	0.427	0.505	220
Ethyl hexanoate	181	258	485	80
Ethyl dodecanoate	5.45	114	11.1	14
Ethyl nonanoate	0.385	1.42	1.19	377
Ethyl octanoate	3.1	1340	852	5
Ethyl propanoate	159	35.8	154	5
Ethyl tetradecanoate	0.817	10.7	1.99	2000
Ethyl undecanoate	0.292	0.13	0.163	-
Ethyl leucate	0.755	6.65	5.77	51
Ethyl 4-methylpentanoate	118	64.3	149	1409
Ethyl isobutyrate	21.2	7.96	19.5	15
Ethyl isovalerate	0.545	0.882	0.969	3
Diethyl succinate	209	203	229	200000
Ethyl 3-hydroxybutyrate	1.48	1.65	1.14	20000
Ethyl acetate	1150	1440	1670	12000
Ethyl L-lactate	264	1140	1330	154636
Ethyl 2-phenylacetate	0.156	2.52	1.87	250
Ethyl sorbate	0.009	0.021	0.024	-
Hexyl acetate	9.37	80.4	57	1500
Isoamyl acetate	1510	2950	7930	30
Isoamyl octanoate	0.842	2.8	1.32	125
Isobutyl acetate	28.1	18.6	31.7	1600
2-Phenylethyl acetate	17.4	362	287	250
Ethyl 2-furoate	3.18	7.14	6.95	132000
Ethyl cinnamate	0.146	0.361	0.284	1.1
Ethyl dihydrocinnammate	0.142	0.602	0.476	1.6
Ethyl pentanoate	0.722	1.45	1.64	-
Ethyl vanillate	2.93	0.636	1.32	990
Methyl anthranilate	-	7.86	7.01	100
Methyl hexanoate	25.3	8.78	14.7	1
Methyl decanoate	1010	504	1020	1200
Methyl dihydrojasmonate	0.158	0.04	0.134	-
Methyl salicylate	1.03	0.692	0.741	40
Methyl vanillate	0.488	1.47	1.1	3000
Linalyl acetate	50.9	27.9	37.2	-
4-Ethylcatechol	76.2	3.32	24.7	-
4-Vinylphenol	1190	1130	1560	180
m-Cresol	0.402	0.245	0.255	68
o-Cresol	1.09	0.456	0.544	31
Guaiacol	0.67	0.304	0.317	9.5
4-Ethylguaiacol	4.12	3.21	3.5	33
4-Vinylguaiacol	836	891	783	40
4-Ethylphenol	2.14	2.22	1.53	440

Xylenol	0.231	0.165	0.181	-
Syringol	13	41.2	25.8	570
4-Methylguaiacol	0.41	0.064	0.137	-
4-Allyl-2,6-dimethoxyphenol	2.1	1.37	0.63	1200
2-Methoxy-4-Propylphenol	0.12	0.004	0.018	6
Whiskey lactone Cis	0.065	0.029	0.026	67
Furanmethanethiol	0.0008	0.00034	0.00065	0.0004
Whiskey lactone Trans	0.087	0.001	0.092	790
δ -Decalactone	1.56	1.75	2.1	386
γ -Butirrolattone	853	2040	2100	100000
γ -Decalactone	2.02	3.52	3.17	88
γ -Dodecalactone	0.633	0.666	0.573	5
γ -Hexalactone	0.372	0.264	0.229	13000
γ -Nonalattone	34	45	41.7	30
γ -Octalactone	1.02	0.65	0.857	373
γ -Undecalactone	3.49	2.57	3.63	60
α -(E)-Ionone	0.061	0.032	0.041	2.6
β -Damascenone	7.92	3.89	4.09	0.05
TDN (1,1,5-Trimethyl-1,2-dihydronaftalene)	0.813	2.03	2.49	2
Trans- β -Ionone	0.488	0.107	0.162	0.09
Diethyl sulfide	0.024	0.242	0.088	0.93
DEDS (Diethyl disulfide)	0.125	0.161	0.119	4.3
DMS (Dimethyl sulfide)	23.9	4.9	7.54	25
Dimethyl disulfide	0.307	0.109	0.191	15
H ₂ S (Hydrogen Sulfide)	60.9	61.4	32.5	80
Eugenol	14.3	0.468	2.05	6
Isoeugenol	6.76	0.04	0.427	6
(\pm)-Cis-Nerolidol	0.378	0.744	0.796	15
(\pm)-Trans-Nerolidol	0.745	0.029	0.107	250
Citronellol	9.59	5.42	5.41	100
Eucalyptol	0.064	0.15	0.03	1.5
Geraniol	81.9	48.7	43.4	30
Limonene	0.0025	0.708	0.0054	10
Hotrienol	604	138	257	100
Linalool	127	123	127	25
Cis-Linalool oxide	10.2	0.257	1.37	190
Trans-Linalool oxide	4.34	0.309	0.721	190
Nerol	92.9	54.3	48.4	300
Cis-Rose oxide	0.007	0.002	0.003	0.2
Trans-Rose oxide	0.036	0.008	0.011	0.2
α -Terpineol	2.64	2.03	2.47	250
2-MEA (2-Mercaptoethyl acetate)	1.94	20.3	10.7	-
2-M3F (2-Methyl-3-furanthiol)	4.29	2.31	3.14	1
3-MMPrOH (3-Mercapto 2-methylpropan-1-ol)	0.308	1.3	0.653	3
3-MMB (3-Methyl-3-mercaptoputan-1-ol)	n.d.	n.d.	0.007	1.5
Benzothiazole	4.3	0.436	0.918	70
ETA (S-Ethyl Thioacetate)	0.346	6.51	4.7	10
Ethanethiol	n.d.	0.267	0.035	1.1
E-2MP (Ethyl 2-mercaptopropionate)	0.0089	0.0081	0.0092	0.5

E-3MP (Ethyl 3-mercaptopropionate)	n.d.	0.031	0.015	0.2
MeSH (Metanethiol)	23.1	8.29	8.35	0.3
MTA (Methyl Thioacetate)	1.05	2.88	4.59	-
MTE (2-(Methylthio)ethanol)	48.5	125	91	250
3-MHA (3-Mercaptohexyl acetate)	0.00026	0.0014	0.00093	0.0042
4-MMP (4-Mercapto-4-methylpentan-2-one	0.00066	0.0003	0.00037	0.0008
3-MH (3-Mercaptohexan-1-ol)	0.064	0.047	0.051	0.06
3-MHt (3-Mercaptoheptan-1-ol)	0.208	7.15	1.97	0.035
4-MMPOH (4-Mercapto-4-methylpentan-2-ol	0.0035	0.002	0.002	0.055
