

Table S1 Concentration of volatiles in different mulberry wine samples

Number	Name	Concentration (means±standard deviation, µg/L)				
		Natural clarification	PES0.22	PES0.45	PVDF0.22	PVDF0.45
Alcohols (11)						
1	2-Methyl-1-propanol	13.52±0.64 ^b	16.92±1.37 ^a	6.48±0.94 ^d	13.80±1.92 ^b	9.23±0.36 ^c
2	3-Methyl-1-butanol	332.55±22.70 ^a	235.08±24.65 ^b	144.77±33.58 ^c	135.20±3.62 ^c	243.54±4.18 ^a
3	1-Heptanol	9.63±0.78 ^a	6.91±0.74 ^b	4.34±0.90 ^c	4.11±0.06 ^c	6.86±0.14 ^a
4	Linalool	10.67±1.04 ^a	8.76±0.60 ^a	5.72±1.02 ^b	5.40±1.26 ^b	6.82±1.24 ^b
5	3-Cyclohexen-1-ol,4-methyl-1-(1-methylethyl)-,(1R)-	13.85±0.95 ^a	10.41±1.19 ^b	7.91±1.33 ^c	6.76±0.33 ^d	9.57±1.53 ^c
6	1-Nonanol	13.22±0.96 ^a	7.83±0.93 ^b	4.94±0.20 ^c	6.07±0.40 ^c	8.88±0.42 ^b
7	Benzyl alcohol	52.20±0.62 ^a	29.18±8.91 ^{bc}	24.51±6.15 ^{cd}	17.98±2.71 ^d	38.47±5.62 ^b
8	Phenethyl alcohol	1723.28±18.87 ^a	1287.43±140.16 ^b	964.09±62.72 ^c	738.10±90.19 ^d	1295.80±3.56 ^b
9	3-Phenyl-1-propanol	10.01±0.53 ^a	0.00±0.00	0.00±0.00	0.00±0.00	8.22±1.84 ^b
10	Cedrol	4.78±0.72 ^b	6.39±1.40 ^a	2.20±0.24 ^c	1.62±0.09 ^c	2.12±0.08 ^c
11	1-Hexadecanol	5.57±1.90 ^a	3.02±0.90 ^b	0.00±0.00	1.36±0.19 ^{bc}	2.89±0.03 ^b
	Total	2189.27±46.98^a	1611.94±151.72^b	1164.96±73.85^c	930.39±96.20^d	1632.40±4.66^b
Aldehydes&Ketones (5)						
12	5,9-Undecadien-2-one,6,10-dimethyl-,(E)-	14.77±3.14 ^a	9.83±1.38 ^b	13.56±3.56 ^{ab}	4.81±0.75 ^c	9.88±1.76 ^b
13	Decanal	12.59±2.17 ^b	16.69±1.24 ^{ab}	11.89±2.51 ^b	14.86±2.86 ^{ab}	18.58±3.41 ^a
14	Phenylacetaldehyde	6.19±0.85 ^a	4.35±0.67 ^b	4.10±0.29 ^{bc}	3.35±0.02 ^c	5.38±0.27 ^a
15	Benzaldehyde	0.02±0.00 ^a	0.00±0.00	0.00±0.00	0.00±0.00	0.00±0.00
16	3,4-dimethyl-benzaldehyde	8.43±2.20 ^d	33.99±3.08 ^a	19.32±4.71 ^c	29.53±1.85 ^{ab}	27.57±0.41 ^b
	Total	41.98±1.96	64.87±2.34	48.86±10.72	52.56±5.16	61.41±1.56
Acids (9)						

17	Acetic acid	50.96±3.93 ^a	36.86±1.62 ^b	26.39±3.38 ^c	25.49±4.64 ^e	36.00±0.04 ^b
18	Butyric Acid	7.79±0.63 ^a	5.99±0.81 ^b	4.54±0.68 ^c	3.18±0.02 ^d	6.13±0.34 ^b
19	Hexanoic acid	45.73±4.15 ^a	27.23±5.52 ^b	17.47±5.59 ^c	12.69±0.99 ^e	29.48±0.21 ^b
20	Octanoic acid	47.20±5.09 ^a	30.73±5.70 ^b	20.45±2.51 ^c	13.75±1.76 ^e	33.83±1.70 ^b
21	Nonanoic acid	24.33±3.75 ^a	15.07±6.74 ^{bc}	8.56±1.13 ^{cd}	6.95±2.28 ^d	18.15±1.68 ^{ab}
22	Decanoic acid	27.55±3.79 ^a	10.57±1.72 ^{bc}	8.76±2.01 ^c	0.00±0.00	13.04±0.59 ^b
23	Lauric acid	30.91±5.11 ^a	12.56±3.55 ^b	10.88±2.88 ^{bc}	5.59±1.94 ^c	12.39±1.03 ^b
24	Myristic acid	17.79±5.15 ^a	5.93±1.12 ^b	5.60±1.62 ^b	3.25±0.71 ^b	1.74±0.15 ^b
25	Propanoic acid,2-methyl-,	26.67±2.65 ^{ab}	33.08±6.60 ^a	32.07±5.64 ^a	20.06±1.32 ^b	32.09±0.23 ^a
	Total	278.93±19.04^a	178.02±28.92^b	134.71±22.89^c	90.94±11.13^d	182.85±4.90^b
	Esters (30)					
26	Ethyl Hexanoate	12.46±0.84 ^a	3.04±0.55 ^b	3.27±0.48 ^b	3.31±1.08 ^b	2.78±0.54 ^b
27	Ethyl Lactate	67.81±2.87 ^a	46.94±3.16 ^b	32.00±9.46 ^c	29.11±3.14 ^e	50.71±2.21 ^b
28	Formic acid hexyl formate	17.52±0.97 ^a	0.00±0.00	7.14±1.85 ^b	0.00±0.00	0.00±0.00
29	Ethyl caprylate	30.60±1.56 ^a	0.00±0.00	7.17±1.34 ^b	5.55±0.61 ^b	0.00±0.00
30	Pentanoic acid,2-hydroxy-4-methyl,ethyl ester	42.00±5.90 ^a	31.76±1.73 ^b	20.26±2.83 ^c	17.42±2.40 ^e	27.74±4.71 ^b
31	Methoxyacetic acid,3-methylbutyl ester	22.85±1.60 ^a	16.71±1.45 ^b	10.50±3.00 ^c	10.28±1.31 ^c	15.27±3.08 ^b
32	Benzoic acid,methyl ester	4.18±0.10 ^a	0.00±0.00	0.00±0.00	0.00±0.00 ^b	2.06±0.46 ^b
33	Decanoic acid,ethyl ester	4.21±0.96 ^a	0.00±0.00	1.76±0.20 ^b	0.00±0.00	0.00±0.00
34	Butanedioic acid 1-ethyl 4-methyl ester	5.09±0.97 ^{ab}	5.60±0.93 ^a	6.45±0.54 ^a	3.54±0.21 ^b	5.19±1.30 ^b
35	Benzoate acid,ethyl ester	32.61±1.80 ^a	10.92±1.11 ^b	5.64±0.76 ^c	9.15±0.10 ^b	12.11±3.07 ^b
36	Acetic acid ,phenylmethyl ester	2.80±0.34 ^a	0.00±0.00	0.66±0.32 ^b	0.70±0.10 ^b	2.43±1.04 ^a
37	Benzoic acid,2-hydroxy-,methyl ester	36.67±1.50 ^a	0.00±0.00	0.00±0.00	18.66±0.67 ^c	23.24±0.33 ^b
38	Pentanedioic acid,diethyl ester	8.90±0.25 ^a	5.36±1.21 ^b	3.34±0.43 ^{cd}	2.96±0.42 ^d	5.08±1.85 ^{bc}
39	Butanedioic acid diethyl ester	864.02±186.40 ^a	685.68±99.76 ^a	487.60±14.38 ^b	396.93±42.62 ^b	776.24±29.85 ^a
40	Benzeneacetic acid,ethyl ester	4.25±0.92 ^a	2.92±0.34 ^b	0.00±0.00	2.78±1.30 ^b	2.06±0.06 ^b

41	Acetic acid,2-phenylethyl ester	87.16±3.35 ^a	46.38±5.77 ^b	36.07±5.41 ^c	34.22±1.15 ^c	52.95±1.87 ^b
42	Dodecanoic acid,ethyl ester	2.95±0.66 ^a	0.00±0.00	1.66±0.04 ^b	0.00±0.00	0.00±0.00
43	Benzenepropanoic acid,ethyl ester	52.20±0.62 ^a	22.94±1.53 ^b	16.34±4.10 ^c	17.80±1.38 ^c	27.50±3.61 ^b
44	2 (3H)-Furanone,dihydro-5-pentyl-	6.92±0.30 ^a	4.37±1.55 ^{bc}	0.00±0.00	2.96±0.07 ^c	4.72±0.87 ^b
45	Tetradecanoic acid,ethyl ester	8.32±1.55 ^a	1.54±0.29 ^b	2.23±0.47 ^b	1.00±0.21 ^b	1.08±0.14 ^b
46	Hexanedioic acid,bis(2-methylpropyl) ester	12.87±1.47 ^a	7.75±2.07 ^{bc}	8.77±1.79 ^b	5.93±0.31 ^c	8.88±0.75 ^b
47	2-Propenoic acid,3-phenyl-,ethyl ester	0.27±0.01 ^a	0.00±0.00	0.00±0.00	0.00±0.00	0.00±0.00
48	Pentanedioic acid,dibuty ester	3.80±0.59 ^a	3.12±1.04 ^{ab}	2.18±0.31 ^b	3.52±0.13 ^a	3.52±0.13 ^a
49	Palmitic acid ethyl ester	164.08±26.36 ^a	39.78±8.12 ^b	40.73±7.20 ^b	25.83±4.06 ^b	35.93±0.77 ^b
50	Heptadecanoic acid,15-methyl-,ethyl ester	14.09±1.93 ^a	15.15±3.53 ^a	12.54±2.23 ^{ab}	8.88±0.69 ^b	11.97±1.17 ^{ab}
51	9,12-Octadecadienoic acid,ethyl ester	53.73±6.40 ^b	78.68±7.78 ^a	2.18±0.31 ^c	0.00±0.00	0.00±0.00
52	Ethyl linolenate	4.23±0.38 ^b	6.11±0.75 ^a	0.00±0.00	0.00±0.00	0.00±0.00
53	9-Octadecenoic acid (Z)-, ethyl ester	0.04±0.00 ^a	0.00±0.00	0.00±0.00	0.00±0.00	0.01±0.00 ^b
54	Tetradecanoic acid 1-methylethyl ester	0.00±0.00	0.00±0.00	5.25±0.89 ^a	0.00±0.00	0.00±0.00
55	Methyl palmitate	0.00±0.00	0.00±0.00	0.00±0.00	7.20±0.31 ^a	0.00±0.00
	Total	1566.58±173.98^a	1034.75±137.85^b	713.73±32.88^c	607.72±50.88^c	1071.48±40.60^b
	Phenols (4)					
56	Phenol,4-methyl	5.96±0.23 ^a	5.09±1.74 ^{ab}	4.25±0.29 ^{bc}	2.87±0.54 ^c	5.33±0.15 ^b
57	Eugenol	329.26±19.64 ^a	162.41±49.33 ^c	128.79±13.84 ^{cd}	96.82±14.80 ^d	213.80±9.50 ^b
58	Carvacrol	7.26±0.51 ^a	3.72±1.03 ^{bc}	2.82±0.39 ^{cd}	2.37±0.30 ^d	4.72±0.18 ^b
59	Phenol,2-methoxyl-4-(1-propenyl)-	8.24±0.72 ^a	4.80±1.44 ^b	0.00±0.00	2.53±0.15 ^c	5.45±0.22 ^b
	Total	350.72±20.37^a	176.02±53.44^c	135.86±14.52^{cd}	104.59±15.63^a	229.31±9.72^d
□	TOTAL	4412.71±148.04^a	3055.76±347.03^b	2184.56±142.35^c	1781.39±177.55^d	3167.57±52.91^b

Note: mean values in the same row with different superscripted letters indicate that they are significantly different at $p < 0.05$. ANOVA analysis was applied.