ESI Table 1: Structures and peak labels of the imidazolium ionic liquids in Figure 7

Compound	Structure	Anion	N°
Imidazole	N	-	0
[EtMeIm]Cl	EtMeIm ⁺ H ₃ C N CH ₃	Cl-	1
[BuMelm][Tf ₂ N]	BuMeIm ⁺ H ₃ C N CH ₃	Tf_2N O O N S CF_3	2
[BuMe ₂ Im][Tf ₂ N]	BuMe ₂ Im ⁺ CH ₃ CH ₃ CH ₃	Tf_2N^{-1} F_3C N S CF_3	3
[HexMeIm]Cl	HexMeIm ⁺ CH ₃ C CH ₃	Cl-	4
[OctMeIm]Cl	OctMeIm ⁺ CH ₃ C CH ₅	Cl-	5

ESI Table 2: peak labels of the red wine anthocyanins in Figure 10

Peak Anthocyanin 1 Dp-3-gl 2 Cy-3-gl 3 Pt-3-gl 4 Pe-3-gl 5 Mv-3-gl 6 Vi B 7 Ac vi B 8 Dp-3-acgl 9 Cy-3-acgl 10 Pt-3-acgl 11 Pe-3-acgl 12 Mv-3-acgl 13 Coum vi B 14 Vi A 15 Mv-3-cis coumgl 16 Ac vi A 17 Dp-3-trans coumgl 18 Cy-3-trans coumgl 19 Mv-3-cafgl 20 Pin A 21 Pt-3-trans coumgl 22 Mv-3-gl-4-vp 23 Pe-3-trans coumgl 24 Mv-3-trans coumgl 25 Ac pin A Mv-3-acgl-4-vp		
2	Peak	Anthocyanin
3 Pt-3-gl 4 Pe-3-gl 5 Mv-3-gl 6 Vi B 7 Ac vi B 8 Dp-3-acgl 9 Cy-3-acgl 10 Pt-3-acgl 11 Pe-3-acgl 12 Mv-3-acgl 13 Coum vi B 14 Vi A 15 Mv-3-cis coumgl 16 Ac vi A 17 Dp-3-trans coumgl 18 Cy-3-trans coumgl 19 Mv-3-cafgl 20 Pin A 21 Pt-3-trans coumgl 22 Mv-3-gl-4-vp 23 Pe-3-trans coumgl 24 Mv-3-trans coumgl 25 Ac pin A	1	Dp-3-gl
4 Pe-3-gl 5 Mv-3-gl 6 Vi B 7 Ac vi B 8 Dp-3-acgl 9 Cy-3-acgl 10 Pt-3-acgl 11 Pe-3-acgl 12 Mv-3-acgl 13 Coum vi B 14 Vi A 15 Mv-3-cis coumgl 16 Ac vi A 17 Dp-3-trans coumgl 18 Cy-3-trans coumgl 19 Mv-3-cafgl 20 Pin A 21 Pt-3-trans coumgl 22 Mv-3-gl-4-vp 23 Pe-3-trans coumgl 24 Mv-3-trans coumgl 25 Ac pin A	2	Cy-3-gl
5 Mv-3-gl 6 Vi B 7 Ac vi B 8 Dp-3-acgl 9 Cy-3-acgl 10 Pt-3-acgl 11 Pe-3-acgl 12 Mv-3-acgl 13 Coum vi B 14 Vi A 15 Mv-3-cis coumgl 16 Ac vi A 17 Dp-3-trans coumgl 18 Cy-3-trans coumgl 19 Mv-3-cafgl 20 Pin A 21 Pt-3-trans coumgl 22 Mv-3-gl-4-vp 23 Pe-3-trans coumgl 24 Mv-3-trans coumgl 25 Ac pin A	3	Pt-3-gl
6 Vi B 7 Ac vi B 8 Dp-3-acgl 9 Cy-3-acgl 10 Pt-3-acgl 11 Pe-3-acgl 12 Mv-3-acgl 13 Coum vi B 14 Vi A 15 Mv-3-cis coumgl 16 Ac vi A 17 Dp-3-trans coumgl 18 Cy-3-trans coumgl 19 Mv-3-cafgl 20 Pin A 21 Pt-3-trans coumgl 22 Mv-3-gl-4-vp 23 Pe-3-trans coumgl 24 Mv-3-trans coumgl 25 Ac pin A	4	Pe-3-gl
7	5	Mv-3-gl
8 Dp-3-acgl 9 Cy-3-acgl 10 Pt-3-acgl 11 Pe-3-acgl 12 Mv-3-acgl 13 Coum vi B 14 Vi A 15 Mv-3-cis coumgl 16 Ac vi A 17 Dp-3-trans coumgl 18 Cy-3-trans coumgl 19 Mv-3-cafgl 20 Pin A 21 Pt-3-trans coumgl 22 Mv-3-gl-4-vp 23 Pe-3-trans coumgl 24 Mv-3-trans coumgl 25 Ac pin A	6	Vi B
9	7	Ac vi B
10 Pt-3-acgl 11 Pe-3-acgl 12 Mv-3-acgl 13 Coum vi B 14 Vi A 15 Mv-3-cis coumgl 16 Ac vi A 17 Dp-3-trans coumgl 18 Cy-3-trans coumgl 19 Mv-3-cafgl 20 Pin A 21 Pt-3-trans coumgl 22 Mv-3-gl-4-vp 23 Pe-3-trans coumgl 24 Mv-3-trans coumgl 25 Ac pin A	8	Dp-3-acgl
11 Pe-3-acgl 12 Mv-3-acgl 13 Coum vi B 14 Vi A 15 Mv-3-cis coumgl 16 Ac vi A 17 Dp-3-trans coumgl 18 Cy-3-trans coumgl 19 Mv-3-cafgl 20 Pin A 21 Pt-3-trans coumgl 22 Mv-3-gl-4-vp 23 Pe-3-trans coumgl 24 Mv-3-trans coumgl 25 Ac pin A	9	Cy-3-acgl
12 Mv-3-acgl 13 Coum vi B 14 Vi A 15 Mv-3-cis coumgl 16 Ac vi A 17 Dp-3-trans coumgl 18 Cy-3-trans coumgl 19 Mv-3-cafgl 20 Pin A 21 Pt-3-trans coumgl 22 Mv-3-gl-4-vp 23 Pe-3-trans coumgl 24 Mv-3-trans coumgl 25 Ac pin A	10	Pt-3-acgl
13 Coum vi B 14 Vi A 15 Mv-3-cis coumgl 16 Ac vi A 17 Dp-3-trans coumgl 18 Cy-3-trans coumgl 19 Mv-3-cafgl 20 Pin A 21 Pt-3-trans coumgl 22 Mv-3-gl-4-vp 23 Pe-3-trans coumgl 24 Mv-3-trans coumgl 25 Ac pin A	11	Pe-3-acgl
14 Vi A 15 Mv-3-cis coumgl 16 Ac vi A 17 Dp-3-trans coumgl 18 Cy-3-trans coumgl 19 Mv-3-cafgl 20 Pin A 21 Pt-3-trans coumgl 22 Mv-3-gl-4-vp 23 Pe-3-trans coumgl 24 Mv-3-trans coumgl 25 Ac pin A	12	Mv-3-acgl
15 Mv-3-cis coumgl 16 Ac vi A 17 Dp-3-trans coumgl 18 Cy-3-trans coumgl 19 Mv-3-cafgl 20 Pin A 21 Pt-3-trans coumgl 22 Mv-3-gl-4-vp 23 Pe-3-trans coumgl 24 Mv-3-trans coumgl 25 Ac pin A	13	Coum vi B
16 Ac vi A 17 Dp-3-trans coumgl 18 Cy-3-trans coumgl 19 Mv-3-cafgl 20 Pin A 21 Pt-3-trans coumgl 22 Mv-3-gl-4-vp 23 Pe-3-trans coumgl 24 Mv-3-trans coumgl 25 Ac pin A	14	Vi A
17 Dp-3-trans coumgl 18 Cy-3-trans coumgl 19 Mv-3-cafgl 20 Pin A 21 Pt-3-trans coumgl 22 Mv-3-gl-4-vp 23 Pe-3-trans coumgl 24 Mv-3-trans coumgl 25 Ac pin A	15	Mv-3-cis coumgl
18	16	Ac vi A
19 Mv-3-cafgl 20 Pin A 21 Pt-3-trans coumgl 22 Mv-3-gl-4-vp 23 Pe-3-trans coumgl 24 Mv-3-trans coumgl 25 Ac pin A	17	Dp-3-trans coumgl
20 Pin A 21 Pt-3-trans coumgl 22 Mv-3-gl-4-vp 23 Pe-3-trans coumgl 24 Mv-3-trans coumgl 25 Ac pin A	18	
21 Pt-3-trans coumgl 22 Mv-3-gl-4-vp 23 Pe-3-trans coumgl 24 Mv-3-trans coumgl 25 Ac pin A	19	Mv-3-cafgl
22 Mv-3-gl-4-vp 23 Pe-3-trans coumgl 24 Mv-3-trans coumgl 25 Ac pin A	20	Pin A
23 Pe-3-trans coumgl 24 Mv-3-trans coumgl 25 Ac pin A	21	Pt-3-trans coumgl
24 Mv-3-trans coumgl 25 Ac pin A	22	Mv-3-gl-4-vp
25 Ac pin A	23	Pe-3-trans coumgl
and provided the p	24	Mv-3-trans coumgl
26 My-3-acgl-4-yn	25	Ac pin A
20 NV - 3-4Cg1-4-Vp	26	Mv-3-acgl-4-vp
27 Coum vi A	27	