

Table S1. Content of anthocyanins compounds [mg/L] in cloudy sour cherry juices after 6 months of storage time.

Sour cherry cloudy juices	3 m at 4°C					6 m at 4°C				
	C3s	C3gr	C3r	P3r	dC+C3g	C3s	C3gr	C3r	P3r	dC+C3g
Safir	245.84 ± 17.28 b	226.21 ± 6.54 bc	8.49 ± 0.33 e	36.84 ± 3.05 g	0.80 ± 0.02 c	22.06 ± 2.01 b	42.23 ± 2.67 e	1.37 ± 0.40 e	2.67 ± 0.04 h	0.54 ± 0.03 d
Topas	100.12 ± 0.97 g	218.4 ± 5.22 de	6.36 ± 0.19 g	56.73 ± 3.44 d	0.73 ± 0.00 d	22.33 ± 0.56 b	80.89 ± 7.12 b	2.19 ± 0.08 c	11.25 ± 0.01 a	0.93 ± 0.00 b
Turgieniewka	69.12 ± 2.05 ij	175.97 ± 3.45 h	3.84 ± 0.11 m	24.32 ± 0.06 i	0.25 ± 0.00 k	16.17 ± 0.24 c	56.79 ± 2.25 d	1.72 ± 0.06 d	5.19 ± 0.05 e	0.39 ± 0.01 f
Wanda	112.58 ± 3.33 f	173.81 ± 2.99 hi	6.82 ± 0.25 f	43.62 ± 2.00 e	0.58 ± 0.01 e	16.47 ± 0.00 c	61.28 ± 4.21 c	1.08 ± 0.04 g	5.53 ± 0.21 d	0.42 ± 0.02 ef
Erdi Bötermö	58.83 ± 1.74 kl	128.95 ± 0.54 m	3.35 ± 0.01 n	36.99 ± 0.06 g	0.34 ± 0.01 i	4.63 ± 0.04 hi	18.37 ± 1.00 i	0.88 ± 0.03 ij	1.12 ± 0.02 ij	0.30 ± 0.01 g
Karneol	64.68 ± 1.92 jk	183.62 ± 3.02 g	4.79 ± 0.14 ij	43.15 ± 1.71 ef	0.49 ± 0.01 g	6.22 ± 0.09 h	33.99 ± 2.76 f	0.85 ± 0.03 j	3.22 ± 0.03 g	0.42 ± 0.02 ef
Nord Star	82.59 ± 2.45 h	154.14 ± 3.00 l	2.18 ± 0.00 o	14.10 ± 0.65 j	0.36 ± 0.01 i	5.53 ± 0.71 hi	17.10 ± 0.98 ij	1.00 ± 0.03 h	0.73 ± 0.01 l	0.29 ± 0.01 gh
Łutówka	76.24 ± 2.26 hi	164.17 ± 3.54 jk	5.06 ± 0.11 hi	53.62 ± 2.12 d	0.78 ± 0.02 c	8.27 ± 0.07 e	33.23 ± 3.33 f	1.21 ± 0.01 f	5.08 ± 0.08 e	0.33 ± 0.02 g
Wiblek	165.17 ± 6.89 d	224.02 ± 4.39 cd	13.06 ± 0.22 b	81.35 ± 11.02 b	0.92 ± 0.02 b	20.75 ± 0.54 b	56.20 ± 3.03 d	2.60 ± 0.55 b	8.88 ± 0.13 c	0.72 ± 0.04 c
Wifor	121.22 ± 3.59 e	185.11 ± 5.67 fg	4.92 ± 0.15 ij	42.53 ± 1.69 ef	0.57 ± 0.01 e	7.81 ± 0.22 f	24.75 ± 1.11 h	1.08 ± 0.00 g	0.64 ± 0.01 l	0.39 ± 0.03 f
Debreceni Bötermö	21.38 ± 0.63 m	61.11 ± 1.20 r	0.88 ± 0.03 r	14.77 ± 0.58 j	0.03 ± 0.00 no	1.28 ± 0.00 no	6.23 ± 0.11 l	0.22 ± 0.00 n	0.12 ± 0.02 n	0.17 ± 0.01 jk
Sabina	53.67 ± 1.59 l	189.78 ± 4.00 f	4.16 ± 0.14 l	45.02 ± 2.00 e	0.68 ± 0.00 e	6.87 ± 0.03 g	42.50 ± 1.68 e	0.94 ± 0.03 hi	4.41 ± 0.03 f	0.45 ± 0.02 e
Agat	28.33 ± 0.53 m	105.72 ± 4.02 n	1.52 ± 0.01 p	42.20 ± 1.78 ef	0.29 ± 0.00 j	1.76 ± 0.01 no	9.83 ± 0.38 k	0.52 ± 0.01 m	1.18 ± 0.11 i	0.12 ± 0.01 kl
Kelleris 14	123.41 ± 3.66 e	168.72 ± 3.31 ij	5.28 ± 0.21 h	55.54 ± 1.85 d	0.53 ± 0.00 f	11.64 ± 0.01 d	29.62 ± 0.05 g	1.33 ± 0.00 e	2.63 ± 0.21 h	0.42 ± 0.00 ef
Dradem	0.75 ± 0.33 n	13.72 ± 0.27 s	0.13 ± 0.01 u	3.29 ± 0.45 l	0.01 ± 0.00 o	0.05 ± 0.00 p	0.36 ± 0.02 r	0.01 ± 0.01 r	0.04 ± 0.00 o	0.01 ± 0.00 m
Skierka	590.38 ± 9.49 a	412.75 ± 4.12 a	10.91 ± 0.58 d	62.80 ± 2.49 c	4.45 ± 0.00 a	111.86 ± 3.04 a	156.56 ± 4.89 a	5.05 ± 0.03 a	9.93 ± 0.86 b	2.65 ± 0.04 a
Wilena	203.44 ± 6.02 c	240.81 ± 22.78 b	15.03 ± 1.00 a	91.63 ± 5.63 a	0.89 ± 0.02 b	3.40 ± 0.04 jk	9.25 ± 0.44 k	0.72 ± 0.01 k	1.03 ± 0.02 ijk	0.24 ± 0.01 hi
Winer	66.59 ± 1.97 jk	162.00 ± 2.55 k	4.36 ± 0.14 kl	40.21 ± 1.49 f	0.37 ± 0.01 i	3.00 ± 0.00 l	14.64 ± 0.00 j	0.66 ± 0.05 kl	0.99 ± 0.02 jk	0.18 ± 0.01 j
Wisok	112.67 ± 4.33 f	212.71 ± 5.02 e	12.05 ± 0.36 c	94.26 ± 1.98 a	0.22 ± 0.00 k	8.34 ± 0.00 e	33.48 ± 1.24 f	1.67 ± 0.20 d	5.41 ± 0.10 d	0.47 ± 0.00 e
Morina	60.29 ± 1.79 kl	148.63 ± 4.02 l	4.83 ± 0.12 ij	44.47 ± 1.76 e	0.24 ± 0.00 k	2.17 ± 0.05 m	9.70 ± 0.55 k	0.50 ± 0.02 m	0.94 ± 0.02 k	0.14 ± 0.01 jkl
Lucyna	60.68 ± 1.69 kl	175.27 ± 3.55 h	4.60 ± 0.15 jk	29.18 ± 0.15 h	0.44 ± 0.00 h	3.36 ± 0.02 jk	19.07 ± 0.75 i	0.62 ± 0.01 l	1.14 ± 0.02 ij	0.19 ± 0.01 ij
Pandy	23.73 ± 0.58 m	87.95 ± 1.00 o	1.10 ± 0.04 r	16.06 ± 0.78 j	0.06 ± 0.02 m	0.68 ± 0.07 no	4.65 ± 0.22 m	0.22 ± 0.00 n	0.33 ± 0.00 m	0.12 ± 0.00 kl
Groniasta	21.04 ± 0.89 m	80.08 ± 2.02 p	1.04 ± 0.07 r	14.99 ± 0.98 j	0.14 ± 0.00 l	0.47 ± 0.01 no	3.72 ± 0.45 mn	0.19 ± 0.01 o	0.16 ± 0.02 n	0.12 ± 0.01 kl
Nana	0.75 ± 0.01 n	9.85 ± 0.00 t	0.19 ± 0.00 t	0.04 ± 0.00 m	0.01 ± 0.00 o	0.02 ± 0.00 p	0.43 ± 0.00 p	0.01 ± 0.00 r	0.02 ± 0.01 p	0.01 ± 0.00 m
Nagy Erdigymulscu	20.45 ± 0.72 m	66.35 ± 1.30 r	0.45 ± 0.00 s	8.63 ± 0.01 k	0.17 ± 0.00 l	0.48 ± 0.05 no	2.92 ± 0.44 no	0.14 ± 0.03 p	0.10 ± 0.00 n	0.09 ± 0.00 l

m-months; C3s-Cyanidin-3-O-sophoroside; C3gr-Cyanidin-3-O-glucosylrutinoside; C3r-Cyanidin-3-O-rutinoside; P3r-Peonidin-3-O-rutinoside; dC + C3g –sum of derivatives of Cyanidin and Cyanidin-3-O-glucoside; *Values (mean of 3 replications) followed by the same letter, within the same column, were significantly different (p<0.05), according to Duncan's test

Table S2. Content of anthocyanins compounds [mg/L] in cloudy sour cherry juices after 6 months of storage time.

Sour cherry cloudy juices	3 m at 30°C					6 m at 30°C				
	C3s	C3gr	C3r	P3r	dC+C3g	C3s	C3gr	C3r	P3r	dC+C3g
Safir	211.09 ± 20.11 b	204.08 ± 8.18 bc	6.49 ± 0.21 e	30.91 ± 0.61 k	0.62 ± 0.02 d	10.61 ± 0.56 a	22.80 ± 0.90 b	0.51 ± 0.00 c	1.11 ± 0.76 d	0.51 ± 0.01 c
Topas	90.49 ± 4.58 ef	208.99 ± 14.78 b	5.78 ± 0.40 g	52.43 ± 2.02 e	0.73 ± 0.02 c	5.05 ± 0.15 b	24.45 ± 1.07 a	0.47 ± 0.02 d	1.96 ± 0.00 a	0.67 ± 0.33 a
Turgieniewka	59.91 ± 4.00 gh	160.63 ± 8.93 de	3.02 ± 0.08 l	20.66 ± 0.05 o	0.30 ± 0.00 k	5.35 ± 0.33 b	23.62 ± 0.05 b	0.54 ± 0.06 b	1.88 ± 0.13 b	0.31 ± 0.00 e
Wanda	97.20 ± 4.04 ef	157.62 ± 5.15 def	5.21 ± 0.06 h	35.51 ± 1.08 hi	0.46 ± 0.01 g	3.02 ± 0.16 d	11.21 ± 0.56 d	0.30 ± 0.01 e	0.70 ± 0.03 f	0.35 ± 0.00 d
Erdi Bötermö	41.62 ± 1.75 j	100.02 ± 8.96 h	1.74 ± 0.07 n	22.95 ± 0.45 n	0.22 ± 0.00 no	0.87 ± 0.00 g	4.54 ± 0.02 g	0.19 ± 0.00 k	0.22 ± 0.04 j	0.30 ± 0.02 ef
Karneol	51.29 ± 1.03 hij	157.18 ± 10.16 def	3.59 ± 0.11 jk	32.60 ± 1.00 j	0.39 ± 0.00 i	1.36 ± 0.05 f	9.52 ± 0.37 e	0.29 ± 0.03 f	0.55 ± 0.03 h	0.34 ± 0.02 d
Nord Star	48.01 ± 1.90 ij	109.01 ± 5.41 h	6.16 ± 0.12 f	8.40 ± 0.1 r	0.23 ± 0.00 mn	1.31 ± 0.00 f	4.06 ± 0.16 gh	0.22 ± 0.00 i	0.14 ± 0.00 kl	0.27 ± 0.00 g
Łutówka	62.14 ± 4.46 g	143.97 ± 4.99 f	3.43 ± 0.09 k	43.39 ± 0.03 f	0.49 ± 0.00 f	1.96 ± 0.06 e	9.55 ± 0.01 e	0.30 ± 0.00 e	0.88 ± 0.00 e	0.27 ± 0.00 g
Wiblek	130.34 ± 4.16 d	202.66 ± 2.05 bc	10.29 ± 0.20 c	66.33 ± 4.44 c	0.74 ± 0.00 bc	3.94 ± 0.02 c	14.44 ± 0.07 c	0.57 ± 0.28 a	1.36 ± 0.09 c	0.60 ± 0.00 b
Wifor	87.61 ± 2.47 f	154.19 ± 7.66 ef	3.15 ± 0.00 l	30.69 ± 0.07 k	0.43±0.00 h	2.03 ± 0.10 e	7.32 ± 0.44 f	0.26 ± 0.00 g	0.38 ± 0.04 i	0.30 ± 0.01 ef
Debreceni Bötermö	15.08 ± 0.87 k	46.60 ± 4.31 l	0.44 ± 0.00 r	9.12 ± 0.33 r	0.03 ± 0.00 t	0.34 ± 0.05 hi	1.74 ± 0.17 j	0.05 ± 0.01 n	0.10 ± 0.01 l	0.35 ± 0.02 d
Sabina	45.95 ± 1.82 ij	169.59 ± 8.42 d	3.20 ± 0.10 l	36.17 ± 0.17 h	0.55 ± 0.03 e	1.43 ± 0.05 f	11.40 ± 0.15 d	0.18 ± 0.00 l	0.68 ± 0.02 fg	0.28 ± 0.02 fg
Agat	19.53 ± 0.45 k	78.94 ± 4.91 i	1.27 ± 0.00 o	27.83 ± 0.54 l	0.20 ± 0.00 o	0.45 ± 0.01 h	4.64 ± 0.11 g	nd	0.62 ± 0.04 gh	0.07 ± 0.03 h
Kelleris 14	98.50 ± 4.155 e	144.24 ± 7.89 f	3.56 ± 0.07 jk	40.65 ± 1.11 g	0.34 ± 0.02 j	0.39 ± 0.02 h	4.07 ± 0.05 gh	nd	0.44 ± 0.05 i	0.06 ± 0.01 h
Dradem	0.32 ± 0.22 l	7.10 ± 0.71 m	0.08 ± 0.02 s	1.89 ± 0.07 t	0.01 ± 0.00 u	0.38 ± 0.05 h	3.46 ± 0.11 hi	nd	0.45 ± 0.00 i	0.06 ± 0.02 h
Skierka	556.59 ± 13.08 a	387.40 ± 13.12 a	13.56 ± 0.04 a	57.17 ± 1.12 d	2.78 ± 0.10 a	0.42 ± 0.03 h	4.12 ± 0.20 gh	nd	0.45 ± 0.02 i	0.06 ± 0.00 h
Wilena	173.22 ± 16.16 c	215.12 ± 15.15 b	11.49 ± 0.67 b	75.69 ± 2.67 b	0.72 ± 0.00 c	0.34 ± 0.00 hi	3.24 ± 0.00 hi	0.08 ± 0.02 n	0.38 ± 0.04 i	0.06 ± 0.03 h
Winer	48.79 ± 1.93 ij	129.20 ± 2.76 g	2.45 ± 0.09 m	27.59 ± 0.44 l	0.25 ± 0.00 lm	0.33 ± 0.03 hi	3.47 ± 0.21 hi	0.21 ± 0.00 j	0.44 ± 0.05 i	0.08 ± 0.01 h
Wisok	93.06 ± 3.67 ef	193.09 ± 6.77 c	10.05 ± 0.00 d	80.80 ± 0.15 a	0.80 ± 0.04 b	0.35 ± 0.00 hi	3.51 ± 0.15 hi	0.16 ± 0.00 m	0.42 ± 0.02 i	0.05 ± 0.01 h
Morina	47.52 ± 1.88 ij	125.03 ± 9.31 g	3.65 ± 0.00 j	34.40 ± 0.67 i	0.26 ± 0.01 l	nd	3.40 ± 0.07 hi	0.11 ± 0.00 n	0.44 ± 0.00 i	0.08 ± 0.00 h
Lucyna	52.13 ± 3.00 hi	157.76 ± 3.93 def	3.91 ± 0.11 i	24.18 ± 0.00 m	0.38 ± 0.01 i	0.16 ± 0.02 jkl	1.47 ± 0.21 j	nd	0.24 ± 0.02 j	0.02 ± 0.00 i
Pandy	17.46 ± 0.07 k	67.41 ± 3.34 ij	0.76 ± 0.02 p	10.78 ± 0.21 p	0.06 ± 0.02 s	0.33 ± 0.02 hi	2.82 ± 0.07 i	nd	0.42 ± 0.02 i	0.07 ± 0.02 h
Groniasta	14.74 ± 1.11 k	60.27 ± 2.99 jk	0.65 ± 0.10 p	9.43 ± 0.55 r	0.11 ± 0.02 r	0.10 ± 0.02 l	1.13 ± 0.07 j	0.11 ± 0.01 n	0.19 ± 0.00 jk	0.05 ± 0.03 h
Nana	0.82 ± 0.11 l	6.30 ± 0.03 m	nd	0.60 ± 0.07 u	0.02 ± 0.01 t	0.28 ± 0.00 hij	2.85 ± 0.31 i	0.16 ± 0.01 m	0.41 ± 0.03 i	0.06 ± 0.02 h
Nagy Erdigymulscu	15.63 ± 0.62 k	52.97 ± 0.62 kl	nd	6.01 ± 0.01 s	0.14 ± 0.00 p	0.41 ± 0.02 h	3.36±0.21 hi	0.23±0.00 h	0.42 ± 0.00 i	0.08 ± 0.00 h

m- month; C3s- Cyanidin-3-*O*-sophoroside; C3gr- Cyanidin-3-*O*-glucosylrutinoside; P3r- Peonidin-3-*O*-rutinoside; dC +C3g –sum of derivatives of cyanidin-3-*O*-rutinoside and cyanidin-3-*O*-glucoside; * Values (mean of 3 replications) followed by the same letter, within the same column, were significantly different ($p < 0.05$), according to Duncan's test

Table S3. Evolution of color parameters in sour cherry cloudy juices through storage time (6 months) at 4 and 30 °C.

Sour cherry cloudv	0 months					3 months at 4°C					6 months at 4°C					
	CIE L*	CIE a*	CIE b*	Chroma	Hue angle	CIE L*	CIE a*	CIE b*	Chroma	Hue angle	CIE L*	CIE a*	CIE b*	Chroma	Hue angle	
Safir	26.5 ± 1 a	2.4 ± 0.06 i	-0.3 ± 0.0 hi	2.41 ± 0.1 hij	352.1 ± 13.7 ab	26.1 ± 1.0 jk	2.1 ± 0.0 kl	-0.2 ± 0.0 k	2.1 ± 0.2 jkl	354 ± 7.8 bc	26.6± 1.30 bc	2.1 ± 0.1 f	-0.4 ± 0.0 jk	2.08 ± 0.10 f	349.5 ± 13.6bc	
Tomas	26.3 ± 0.3a	1.8 ± 0.1 kl	-0.5 ± 0.3 jk	1.8 ± 0.6 kl	343.8 ± 10.0 bc	25.9 ± 1.2 j	2.1 ± 0.0 k	0.2 ± 0.1 h	2.2 ± 0.1 ijk	365.0 ± 14 ab	26.0± 0.2bc	1.8± 0	0.02± 0.1f	1.80± 0.03 g	360.6± 4.2bc	
Turczeniewka	26.5 ± 1.5a	2.7 ± 0.1 gh	-0.3 ± 0.2 g	2.7 ± 0.1 gh	354.2 ± 10.0 ab	25.9 ± 1.0 mn	1.6 ± 0.6 o	-0.3 ± 0.0 l	1.6 ± 0.2 mn	348.2 ± 13.5 c	26.3± 1.2bc	1.7± 0	-0.34± 0.2 j	1.77± 0.02 g	348.9± 8.0bc	
Wanda	26.2 ± 1.3a	1.4 ± 0.0 m	-0.6 ± 0.1 no	1.6 ± 0.1 l	335.7 ± 15.0 c	25.6 ± 0.2 kl	1.9 ± 0.7l m	-0.1 ± 0.0 ij	1.9 ± 0.2 lm	357.0 ± 13.9 bc	26.0± 0.2bc	1.2± 0	-0.25± 0.0i	1.24± 0.06 k	348.3± 5.1bc	
Erdi Bötermö	26.2 ± 1.1a	1.1 ± 0.4 n	-0.6 ± 0.0 no	1.3 ± 0.2	330.7 ± 5.2 c	26.1 ± 0.7 n	1.5 ± 0.8 o	-0.5 ± 0.0 m	1.6 ± 0.1 mn	342.7 ± 9.5 c	25.9± 0.0bc	1.0± 0	-0.53± 0.m	1.17± 0.05 l	333.0± 11.9c	
Karneol	27.0 ± 1.0a	4.6 ± 0.7 e	0.3 ± 0.0 e	4.6 ± 0.2 e	363.1 ± 14.1 a	25.8 ± 1.3 hi	2.5 ± 0.7 hi	0.1 ± 0.0 h	2.5 ± 0.1 hi	363.2 ± 7.1 ab	26.6± 1.3bc	2.1± 0	-0.4± 0.0kl	2.16± 0.05 f	349.1± 5.6bc	
Nord Star	26.5 ± 1.0 a	2.4 ± 0.0 i	-0.3 ± 0.0 ghi	2.4 ± 0.0 ij	352.3 ± 3.2 ab	26.1 ± 1.0 ij	2.3 ± 0.9 ij	-0.2 ± 0.0 k	2.3 ± 0.1 ij	354.9 ± 0.8 bc	26.3± 1.3bc	2.2± 0	-0.2± 0.03hi	2.17± 0.10 f	354.7± 8.2bc	
Lutówka	26.5 ± 0.3a	2.7 ± 0.1 hi	-0.4 ± 0.1 i	2.5 ± 0.0 hi	351.7 ± 15.1 ab	25.6 ± 1.5 jk	2.1 ± 0.4 kl	0.2 ± 0.1 h	2.1 ± 0.1 jkl	364.7 ± 7.6 ab	26.3± 0.0bc	1.1± 0	-0.7± 0.00n	1.28± 0.05 k	329.4± 1.2c	
Wiblek	26.1 ± 1.3a	0.9 ± 0.01 o	-0.8 ± 0.0 p	1.2 ± 0.0 n	319.8 ± 4.7 c	25.8 ± 1.4 o	1.2 ± 0.0 p	-0.5 ± 0.0 m	1.3 ± 0.0 no	338.4 ± 6.1 d	25.5± 1.2c	0.9± 0	-0.2± 0.00hi	0.88± 0.05 m	346.9± 13.5b	
Wifor	26.2 ± 0.5a	1.7 ± 0.1 kl	-0.5 ± 0.0 klm	1.7 ± 0.2 kl	341.9 ± 13.3 bc	25.6 ± 1.2 klm	1.8 ± 0.4	-0.2 ± 0.2 k	1.8 ± 0.1 lm	352.5 ± 3.7 bc	26.2± 1.1bc	1.4± 0	-0.5± 0.03lm	1.51± 0.03 ij	342.3± 5.1c	
Debreceni	26.4 ± 1.5a	2.2 ± 0.0 j	-0.5 ± 0.0 j	2.2 ± 0.1 j	347.7 ± 17.0	27.0 ± 0.0 a	9.8 ± 0.7 a	2.5 ± 0.5 a	10.1 ± 0.0 a	374.1 ± 14.5 a	25.9± 1.0bc	2.1± 0	0.2± 0.02e	2.09± 0.10 f	364.4± 4.1b	
Sabina	26.2 ± 1.0a	1.7 ± 0.9 kl	-0.5 ± 0.0 j	1.8 ± 0.0 kl	344.1 ± 8.4 abc	25.7 ± 1.2l mn	1.8 ± 0.0 no	-0.2 ± 0.0 ijk	1.8 ± 0.2l m	354.8 ± 13.8 bc	26.5± 1.2bc	1.4± 0	-0.7± 0.03n	1.55± 0.00 i	335.3± 8.0c	
Agat	26.8 ± 1.3a	3.4 ± 0.1 f	-0.1 ± 0.0 f	3.4 ± 0.0 f	358.3 ± 5.9 ab	26.2 ± 1.1 g	3.4 ± 0.0 g	0.3 ± 0.1 g	3.4 ± 0.6 g	364.7 ± 14.2 ab	26.8± 0.9bc	3.2± 0	-0.1± 0.03g	3.19± 0.04 d	358.7± 11.9b	
Kelleris 14	26.4 ± 0.5a	1.5 ± 0.3 kl	-0.7 ± 0.0 o	1.8 ± 0.3 kl	338.8 ± 16.0 c	26.3 ± 1.5l mn	1.7 ± 0.2 no	-0.6 ± 0.0 n	1.8 ± 0.4 lm	341.5 ± 13.3 c	26.1± 1.0bc	1.8± 0	-0.2± 0.04h	1.82± 0.09 g	355.3± 13.8b	
Dradem	27.8 ± 0.4a	6.4 ± 0.4 a	0.7 ± 0.0 a	6.4 ± 0.1 a	366.2 ± 1.2 a	28.7 ± 0.4 b	9.3 ± 0.3 b	1.9 ± 0.1 b	9.5 ± 0.1 b	371.3 ± 8.9 a	28.5± 1.3b	5.1± 0	1.2± 0.10c	5.24± 0.15 c	371.7± 5.8b	
Skierka	26.2 ± 1.3a	0.9 ± 0.0 o	-0.7 ± 0.0 p	1.2 ± 0.1 n	321.7 ± 5.2 d	25.7 ± 0.0 o	0.7 ± 0.1 r	-0.6 ± 0.0 n	1.0 ± 0.0 o	320.0 ± 6.9 e	25.9± 1.2bc	0.7± 0	-0.6± 0.0mn	0.94± 0.10 m	321.1± 6.1d	
Wilena	25.9 ± 1.2a	1.1 ± 0.4 no	-0.6 ± 0.0	1.2 ± 0.2 n	331.6 ± 12.9 c	25.8 ± 0.1 o	1.1 ± 0.3 p	-0.5 ± 0.0 m	1.2 ± 0.1 o	336.8 ± 2.1 d	26.1± 0.2bc	1.0± 0	-0.7± 0.1n	1.16± 0.03 l	324.8± 4.3d	
Winer	26.6 ± 1.3a	2.5 ± 0.9 hi	-0.4 ± 0.1 i	2.6 ± 0.0	351.7 ± 13.7 ab	26.3 ± 1.2 h	2.7 ± 0.1 h	-0.1 ± 0.0 i	2.7 ± 0.1 h	358.1 ± 13.9 bc	26.3± 0.0bc	2.6± 0	0.2± 0.0e	2.59± 0.12 e	364.0± 5.1b	
Wisok	26.3 ± 0.2a	1.8 ± 0.7 k	-0.5 ± 0.0 jkl	1.9 ± 0.1 k	344.2 ± 15.1	25.9 ± 0.0 n	1.5 ± 0.1 o	-0.5 ± 0.0 m	1.6 ± 0.4 mn	342.5 ± 5.6 c	26.3± 1.1bc	1.7± 0	-0.4± 0.0kl	1.72± 0.08 h	346.2± 9.3bc	
Morina	27.2 ± 0.6a	5.8 ± 0.2 b	0.5 ± 0.0 b	5.8 ± 0.8 b	365.0 ± 11.0 a	26.6 ± 1.0 e	4.9 ± 0.1 e	0.8 ± 0.0 d	5.0 ± 0.2 e	369.0 ± 12.1 a	27.2± 1.3bc	6.0± 0	1.2± 0.0b	6.16± 0.06 b	371.4± 8.3b	
Lucvna	26.2 ± 1.7a	1.6 ± 0.4 lm	-0.6 ± 0.0 lm	1.7 ± 0.2 kl	340.0 ± 11.2 bc	26.0 ± 0.2 ij	2.3 ± 0.0 ij	-0.2 ± 0.0 jk	2.3 ± 0.0 ij	355.7 ± 3.8b c	26.3± 1.2bc	1.5± 0	-0.5± 0.0m	1.55± 0.02 i	340.4± 3.7c	
Pandv	26.6 ± 1.4a	2.8 ± 0.5 g	-0.3 ± 0.0 gh	2.8 ± 0.2 g	354.0 ± 7.0 ab	26.4 ± 0.0 f	4.3 ± 0.0 f	0.3 ± 0.0 fg	4.3 ± 0.1 f	364.1 ± 13.1 ab	26.6± 1.3bc	2.1± 0	-0.4± 0.0kl	2.14± 0.12 f	349.0± 2.7bc	
Groniasta	26.3 ± 0.9a	1.4 ± 0.6 m	-0.7 ± 0.0 p	1.6 ± 0.3l m	334.7 ± 9.1 c	26.4 ± 1.0 d	5.5 ± 0.0 d	1.1 ± 0.0 c	5.6 ± 0.2 d	371.2 ± 21.2 a	26.2± 0.2bc	1.4± 0	-0.5± 0.0lm	1.49± 0.07 j	340.8± 5.2c	
Nana	27.3 ± 1.4a	5.5 ± 0.3 c	0.4 ± 0.0 c	5.5 ± 0.1 c	364.5 ± 14.2 a	27.4 ± 1.3 c	6.1 ± 0.4 c	0.7 ± 0.0 e	6.1 ± 0.3 c	366.6 ± 1.4 ab	32.5± 0.5a	5.9± 0	3.7± 0.2a	6.98± 0.44 a	391.9± 5.2a	
Nagy	27.1 ± 1.3a	5.2 ± 0.1 d	0.3 ± 0.0 d	5.2 ± 0.6 d	363.6 ± 7.1 a	27.0 ± 0.3 e	5.0 ± 0.2 e	0.4 ± 0.0 f	5.0 ± 0.1 e	364.1 ± 14.19	27.4± 1.3bc	5.4± 0	0.8± 0.1d	5.44± 0.27 c	368.0± 11.7b	

* Values (mean of 3 replications) followed by the same letter, within the same column, were significantly different (p<0.05), according to Duncan's test

continued Table S3. Evolution of color parameters in sour cherry cloudy juices through storage time (6 months) at 4 and 30 °C

Sour cherry cloudy juices	3 months at 30°C					6 months at 30°C				
	CIE L	CIE a*	CIE b*	Chroma	Hue angle	CIE L	CIE a*	CIE b*	Chroma	Hue angle
Safir	26.0 ± 1.2ab	1.06 ± 0.0h	-0.55 ± 0.3k	1.2 ± 0.2gh	332.6 ± 12.1f	26.5 ± 1.2bc	1.0 ± 0.0ij	-0.6 ± 0.2n	1.2 ± 0.0f	327.4 ± 5.7g
Topas	26.1 ± 0.8ab	1.06 ± 0.0gh	-0.54 ± 0.2k	1.2 ± 0.gh	333.0 ± 7.9f	26.2 ± 0.6bc	0.9 ± 0.0k	-0.6 ± 0.1m	1.1 ± 0.0hi	325.1 ± 2.6g
Turgieniewka	26.0 ± 1.2ab	1.28 ± 0.0f	-0.54 ± 0.1k	1.4 ± 0.2 f	337.1 ± 2.1f	26.2 ± 0.9bc	1.2 ± 0.0fg	-0.3 ± 0.4i	1.3 ± 0.0e	348.0 ± 8.5e
Wanda	25.5 ± 0.9b	0.84 ± 0.0ij	-0.40 ± 0.2i	0.9 ± 0.3ij	334.5 ± 3.0f	26.3 ± 1.2bc	0.7 ± 0.4mn	-0.7 ± 0.2o	1.0 ± 0.0i	311.7 ± 5.4h
Erdi Bötermö	25.8 ± 1.4ab	0.77 ± 0.0jk	-0.34 ± 0.3h	0.8 ± 0.04 jk	336.2 ± 3.1f	26.1 ± 1.2c	0.6 ± 0.1n	-0.4 ± 0.3k	0.8 ± 0.0l	326.0 ± 9.0g
Karneol	25.6 ± 0.2ab	1.31 ± 0.1f	0.07 ± 0.3e	1.3 ± 0.2fg	363.1 ± 3.2bc	25.9 ± 1.2bc	1.1 ± 0.1hi	0.0 ± 0.0g	1.1 ± 0.0h	360.0 ± 14.0d
Nord Star	26.0 ± 1.2ab	1.17 ± 0.0g	-0.24 ± 0.2g	1.2 ± 0.2gh	348.4 ± 1.5e	26.5 ± 0.0bc	1.1 ± 0.2hi	-0.4 ± 0.1j	1.1 ± 0.0gh	341.7 ± 8.3ef
Łutówka	25.7 ± 0.8ab	0.73 ± 0.0k	-0.42 ± 0.1i	0.8 ± 0.1j	330.1 ± 2.1fg	26.0 ± 0.7bc	0.2 ± 0.1p	-0.8 ± 0.1o	0.8 ± 0.2k	283.2 ± 11.0j
Wiblek	25.7 ± 1.3ab	0.45 ± 0.0n	-0.71 ± 0.2l	0.8 ± 0.2j	302.4 ± 11.04i	25.6 ± 1.2bc	0.5 ± 0.3o	-0.2 ± 0.1i	0.6 ± 0.1m	336.3 ± 9.1f
Wifor	26.0 ± 0.6ab	0.77 ± 0.0jk	-0.46 ± 0.2j	0.9 ± 0.4j	329.2 ± 0.5g	26.3 ± 0.7bc	0.7 ± 0.1m	-0.5 ± 0.1l	0.9 ± 0.1j	325.1 ± 1.5g
Debreceni Bötermö	25.7 ± 1.4ab	1.78 ± 0.0e	0.04 ± 0.4ef	1.8 ± 0.9e	361.3 ± 2.7c	26.1 ± 1.2c	0.5 ± 0.0o	-0.6 ± 0.2l	0.8 ± 0.0l	312.8 ± 2.2h
Sabina	25.9 ± 1.3ab	0.95 ± 0.0i	-0.50 ± 0.2jk	1.1 ± 0.9hi	332.2 ± 5.1fg	26.0 ± 1.2bc	0.9 ± 0.7jk	-0.1 ± 0.3h	0.9 ± 0.2j	351.3 ± 9.0de
Agat	25.5 ± 1.2b	1.92 ± 0.0d	0.01 ± 0.2ef	1.9 ± 0.0d	360.3 ± 3.0c	26.9 ± 1.3bc	1.9 ± 0.1e	0.5 ± 0.7e	2.0 ± 0.1d	376.0 ± 7.6d
Kelleris 14	26.2 ± 1.3ab	1.15 ± 0.1gh	-0.52 ± 0.1k	1.3 ± 0.7fg	335.7 ± 0.0f	26.5 ± 0.0bc	1.0 ± 0.0ij	-0.6 ± 0.1l	1.2 ± 0.2g	330.8 ± 12.8fg
Dradem	28.2 ± 0.5a	3.29 ± 0.1a	2.05 ± 0.2a	3.9 ± 0.08 a	391.9 ± 5.9 a	28.8 ± 1.4b	3.3 ± 0.2b	2.5 ± 0.0b	4.2 ± 0.5b	397.0 ± 5.4b
Skierka	25.8 ± 1.1ab	0.56 ± 0.2 m	-0.78 ± 0.4l	1.0 ± 0.1ij	305.7 ± 7.0i	25.9 ± 0.3bc	0.5 ± 0.4o	-0.7 ± 0.3o	0.9 ± 0.2j	306.6 ± 0.9i
Wilena	25.9 ± 1.2ab	0.66 ± 0.0l	-0.19 ± 0.1g	0.7 ± 0.4k	343.9 ± 8.4ef	26.2 ± 0.8bc	0.5 ± 0.0o	-0.7 ± 0.3o	0.9 ± 0.1j	306.2 ± 6.7i
Winer	26.1 ± 1.0ab	1.34 ± 0.0f	-0.20 ± 0.2g	1.4 ± 0.4f	351.5 ± 4.6d	26.0 ± 0.9bc	1.2 ± 0.0f	0.3 ± 0.2f	1.3 ± 0.4e	371.8 ± 4.3d
Wisok	26.0 ± 1/7ab	0.86 ± 0.0ij	-0.31 ± 0.3h	0.9 ± 0.2j	340.2 ± 11.2ef	26.4 ± 1.2bc	0.7 ± 0.2lm	-0.5 ± 0.1l	0.9 ± 0.2j	323.9 ± 5.6g
Morina	26.5 ± 1.0ab	2.80 ± 0.1c	1.03 ± 0.1b	3.0 ± 0.4c	380.2 ± 14.8ab	26.8 ± 0.3bc	2.2 ± 0.1d	1.0 ± 0.1c	2.4 ± 0.1c	384.5 ± 4.3c
Lucyna	26.1 ± 1.2ab	0.87 ± 0.0ij	-0.44 ± 0.2ij	1.0 ± 0.1ij	333.2 ± 12.9f	26.2 ± 0.8bc	0.8 ± 0.1kl	-0.3 ± 0.1i	0.9 ± 0.2j	342.6 ± 3.3e
Pandy	26.1 ± 0.9ab	1.30 ± 0.1f	0.00 ± 0.1f	1.3 ± 0.4fg	360.0 ± 8.7cd	26.6 ± 1.3bc	1.1 ± 0.2gh	0.1 ± 0.1g	1.2 ± 0.4g	364.6 ± 10.2g
Groniasta	26.0 ± 1.0ab	0.67 ± 0.1l	-0.50 ± 0.2jk	0.8 ± 0.0j	323.3 ± 12.6h	26.4 ± 0.0bc	0.6 ± 0.2no	-0.4 ± 0.1 k	0.7 ± 0.1l	324.1 ± 15.1g

* Values (mean of 3 replications) followed by the same letter, within the same column, were significantly different (p<0.05), according to Duncan's test