

Tab. 2. The content of dry matter (g/100 g fw), vitamin C and carotenoids (mg/100 g fw) in organic and conventional produced tomatoes juice in two years of experiment (average value \pm standard deviation)

| 2008 | dry matter | vitamin C | lycopene | beta-carotene |
|-----------------------------|--------------------|--------------------|--------------------|-------------------|
| Org.1 | 5.47 \pm 0.29 | 14.79 \pm 0.14 | 11.54 \pm 0.68 | 0.34 \pm 0.02 |
| Org.2 | 5.92 \pm 0.03 | 11.55 \pm 0.91 | 12.51 \pm 0.20 | 0.25 \pm 0.01 |
| Org.3 | 5.98 \pm 0.04 | 10.84 \pm 0.11 | 14.12 \pm 0.11 | 0.22 \pm 0.01 |
| Org.4 | 4.32 \pm 0.01 | 11.85 \pm 0.31 | 17.23 \pm 0.88 | 0.23 \pm 0.01 |
| Org.5 | 5.31 \pm 0.04 | 13.93 \pm 0.29 | 14.03 \pm 0.39 | 0.39 \pm 0.01 |
| Org.6 | 5.16 \pm 0.05 | 12.71 \pm 1.33 | 12.60 \pm 0.35 | 0.25 \pm 0.03 |
| | | | | |
| Non-org.1 | 4.60 \pm 0.02 | 9.74 \pm 0.08 | 17.98 \pm 0.08 | 0.19 \pm 0.01 |
| Non-org.2 | 6.95 \pm 0.03 | 14.77 \pm 0.77 | 14.20 \pm 0.09 | 0.18 \pm 0.01 |
| Non-org.3 | 4.37 \pm 0.01 | 8.21 \pm 0.12 | 15.14 \pm 0.07 | 0.27 \pm 0.01 |
| Non-org.4 | 6.31 \pm 0.04 | 14.03 \pm 0.28 | 16.43 \pm 0.36 | 0.11 \pm 0.01 |
| Non-org.5 | 5.08 \pm 0.03 | 13.06 \pm 0.59 | 16.47 \pm 0.22 | 0.42 \pm 0.02 |
| Non-org.6 | 5.90 \pm 0.03 | 13.81 \pm 0.45 | 15.31 \pm 0.30 | 0.36 \pm 0.01 |
| | | | | |
| 2009 | | | | |
| Org.1 | 5.57 \pm 0.32 | 24.57 \pm 0.28 | 10.18 \pm 0.09 | 0.15 \pm 0.01 |
| Org.2 | 6.55 \pm 0.34 | 17.73 \pm 0.77 | 11.47 \pm 0.34 | 0.21 \pm 0.01 |
| Org.3 | 5.43 \pm 0.41 | 23.34 \pm 0.12 | 12.45 \pm 1.18 | 0.20 \pm 0.01 |
| Org.4 | 4.55 \pm 0.08 | 11.63 \pm 0.28 | 14.50 \pm 0.29 | 0.12 \pm 0.02 |
| Org.5 | 6.33 \pm 0.08 | 24.23 \pm 0.59 | 10.35 \pm 0.10 | 0.26 \pm 0.02 |
| Org.6 | 7.31 \pm 0.12 | 24.41 \pm 0.23 | 9.26 \pm 0.17 | 0.19 \pm 0.02 |
| | | | | |
| Non-org.1 | 5.93 \pm 0.03 | 25.22 \pm 0.10 | 14.62 \pm 0.02 | 0.09 \pm 0.01 |
| Non-org.2 | 5.44 \pm 0.03 | 24.09 \pm 0.53 | 15.34 \pm 0.10 | 0.10 \pm 0.01 |
| Non-org.3 | 5.25 \pm 0.06 | 27.29 \pm 0.30 | 18.31 \pm 0.08 | 0.10 \pm 0.01 |
| Non-org.4 | 5.46 \pm 0.11 | 24.64 \pm 0.87 | 14.15 \pm 0.83 | 0.09 \pm 0.02 |
| Non-org.5 | 6.21 \pm 0.01 | 30.75 \pm 0.21 | 12.89 \pm 0.77 | 0.24 \pm 0.01 |
| Non-org.6 | 6.13 \pm 0.10 | 26.01 \pm 0.57 | 14.33 \pm 0.34 | 0.23 \pm 0.01 |
| | | | | |
| mean Org. juices | 5.66 \pm 1.02 a* | 16.80 \pm 5.56 a | 12.52 \pm 2.18 a | 0.23 \pm 0.07 b |
| mean Non-org. juices | 5.63 \pm 0.72 a | 19.30 \pm 7.42 b | 15.43 \pm 1.59 b | 0.20 \pm 0.11 a |
| mean tomatoes juices (2008) | 5.44 \pm 0.91 A | 12.44 \pm 2.06 A | 14.80 \pm 1.95 B | 0.27 \pm 0.09 B |
| mean tomatoes juices (2009) | 5.85 \pm 0.71 B | 23.66 \pm 4.68 B | 13.15 \pm 2.52 A | 0.16 \pm 0.06 A |
| | | | | |
| p-value | | | | |
| production system | n.s.** | 0.0013 | 0.0001 | 0.049 |
| year | 0.0002 | <0.0001 | <0.0001 | <0.0001 |
| production x year | 0.005 | 0.0003 | n.s. | n.s. |

* means in a columns followed by the different letter are significantly different at the 5% level of probability ($\alpha=0.05$) by Tukey's test; ** not significant statistically ($\alpha>0.05$)

small letter focused differences between juice production system, CAPITAL letter focused differences between experimental years