

## QUALITY SPECIFICATION

### Nervonic acid

CAS No.: 506-37-6

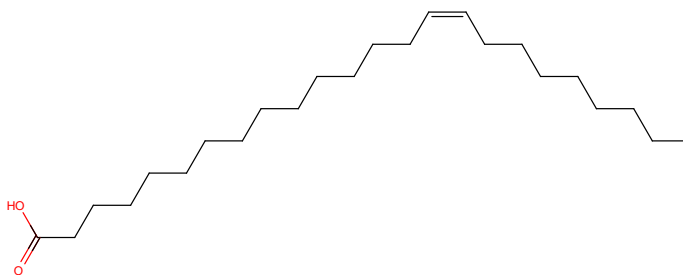
Molecular formula: C<sub>24</sub>H<sub>46</sub>O<sub>2</sub>

MW: 366.62

Source: *Acer truncatum Bunge*

Part used: seeds

Shelf life: 24 months



| No. | Parameter           | Specification            | Method          |
|-----|---------------------|--------------------------|-----------------|
| 1.  | Appearance          | Powder                   | Visual          |
| 2.  | Color               | White                    | Visual          |
| 3.  | Identification      | Identical to R.S. sample | HPTLC           |
| 4.  | Odor                | Characteristic           | Organoleptic    |
| 5.  | Taste               | Characteristic           | Organoleptic    |
| 6.  | Mesh size/sieve     | ≥95 % pass 80 mesh       | 80 mesh         |
| 7.  | Bulk density        | ≤0.8 g/mL                | Density meter   |
| 8.  | Loss on drying      | ≤5.0 %                   | Ph. Eur. 2.8.17 |
| 9.  | Ashes               | ≤5.0 %                   | Ph. Eur. 2.4.16 |
| 10. | Purity              | ≥90.0 %                  | GC              |
| 11. | Residual pesticides | Meet EC 396/2005         | Third lab       |
| 12. | Residual solvents   | Meet Ph. Eur. 2.4.24     | Ph. Eur. 2.4.24 |
| 13. | Ethylene oxide      | Meet EC 396/2005         | HACCP           |
| 14. | BAP                 | Meet (EU) 2023/915       | HPLC            |
| 15. | PAH4                | Meet (EU) 2023/915       | HPLC            |

|     |                       |                |           |
|-----|-----------------------|----------------|-----------|
| 16. | Heavy Metals          | $\leq 10$ ppm  | ICP-MS    |
| 17. | Lead                  | $\leq 2$ ppm   | ICP-MS    |
| 18. | Arsenic               | $\leq 1$ ppm   | ICP-MS    |
| 19. | Mercury               | $\leq 0.1$ ppm | ICP-MS    |
| 20. | Cadmium               | $\leq 1$ ppm   | ICP-MS    |
| 21. | TPC                   | $< 10^3$ CFU/g | AOAC, BAM |
| 22. | TYMC                  | $< 10^2$ CFU/g | AOAC, BAM |
| 23. | <i>E. Coli</i>        | Absent         | AOAC, BAM |
| 24. | <i>Salmonella</i>     | Absent         | AOAC, BAM |
| 25. | <i>Staphylococcus</i> | Absent         | AOAC, BAM |

Storage: store in a cool and dry place, keep away from strong light and heat

Stability: 24 months when properly stored