



## TECHNICAL DATA SHEET

Standard grade

|                   |                                                |                  |              |
|-------------------|------------------------------------------------|------------------|--------------|
| Product name      | Ethyl 2,4-decadienoate, (2E,4Z)-               | Product code     | EP00128      |
| CAS No.           | 3025-30-7                                      | Pheromone code   | 2E,4Z-10:OEs |
| Molecular formula | C <sub>12</sub> H <sub>20</sub> O <sub>2</sub> | Molecular weight | 196.29       |

### Specification

| Property                | Specification                           | Method                                  |
|-------------------------|-----------------------------------------|-----------------------------------------|
| Appearance              | Clear, colourless to yellow oily liquid | Visual                                  |
| Chemical purity         | ≥ 95.0 %                                | GC-FID (PEG)                            |
| Isomeric purity (2E,4Z) | ≥ 93.0 %                                | GC-FID (cyanopropyl), isomer-normalised |

### Physical properties (literature reference)

|                  |                       |            |                         |
|------------------|-----------------------|------------|-------------------------|
| Boiling point    | 70–72 °C / 0.05 mm Hg | Density    | 0.917 g/cm <sup>3</sup> |
| Refractive index | n <sub>D</sub> 1.480  | Solubility | Soluble in fat          |

### Storage and handling

|                    |                                              |               |                       |
|--------------------|----------------------------------------------|---------------|-----------------------|
| Storage conditions | 2–8 °C, protected from light, tightly closed | Retest period | 24 months             |
| Packaging          | 1 kg; 25 kg                                  | Safety        | See Safety Data Sheet |

### Application (literature reference)

|                |                                                                                                                                 |
|----------------|---------------------------------------------------------------------------------------------------------------------------------|
| Pheromone type | Kairomone                                                                                                                       |
| Target species | Cydia pomonella (codling moth); Cydia fagiglandana (chestnut tortricid); Cydia splendana (chestnut tortricid); Pammene fasciana |
| Order / family | Lepidoptera: Tortricidae                                                                                                        |
| Crops          | Apple; pear; walnut                                                                                                             |
| Key reference  | doi:10.1021/jf040431r; doi:10.1603/0046-225x(2007)36[1025:baoeo]2.0.co;2                                                        |