



## TECHNICAL DATA SHEET

Standard grade

|                   |                                                |                  |            |
|-------------------|------------------------------------------------|------------------|------------|
| Product name      | (E)-11-Tetradecenyl acetate                    | Product code     | EP00047    |
| CAS No.           | 33189-72-9                                     | Pheromone code   | 11E-14:OAc |
| Molecular formula | C <sub>16</sub> H <sub>30</sub> O <sub>2</sub> | Molecular weight | 254.41     |

### Specification

| Property              | Specification                           | Method                                  |
|-----------------------|-----------------------------------------|-----------------------------------------|
| Appearance            | Clear, colourless to yellow oily liquid | Visual                                  |
| Chemical purity       | ≥ 95.0 %                                | GC-FID (PEG)                            |
| Isomeric purity (11E) | ≥ 93.0 %                                | GC-FID (cyanopropyl), isomer-normalised |

### Physical properties (literature reference)

|         |                         |             |         |
|---------|-------------------------|-------------|---------|
| Density | 0.878 g/cm <sup>3</sup> | Flash point | 87.2 °C |
|---------|-------------------------|-------------|---------|

### 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            | Sex pheromone                                                         |
| Target species            | Ostrinia nubilalis; Archips atrolucens                                |
| Order / family            | Lepidoptera: Pyralidae                                                |
| Reported blend components | (Z)-11-tetradecenyl acetate; tetradecyl acetate                       |
| Reported blend ratio      | (Z)-11-tetradecenyl acetate: 97:3 (Z:E)   tetradecyl acetate: 64:32:4 |
| Key reference             | doi:10.1007/bf00987638; doi:10.1007/s10886-013-0291-2                 |