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## Ethyl oleate

Chinese alias: ethyl octadecenoate

English name :Ethyl Oleate

CAS number :111-62-6

EC No. :203-889-5

Molecular formula :C<sub>20</sub>H<sub>38</sub>O<sub>2</sub>

Molecular weight :310.5145

### Physical property data

1. Properties: light yellow oily liquid. Floral and fruity aromas.
2. Density (g/mL, 20/20°C) : 0.8735
3. Flash point (°C) : > 110
4. Boiling point (°C) : 216~218 (2kpa)
5. Refractive index (n<sub>20°C</sub>) : 1.4515
6. Viscosity (mPa · s, 25°C) : 3.9
7. Solubility: insoluble in water, can be mixed with ethanol and ether
8. Relative density (20°C, 4°C) : 0.8720
9. Relative density (25°C, 4°C) : 0.8686
11. Liquid phase standard heat of combustion (enthalpy) (kJ · mol<sup>-1</sup>) : -11884.7
12. The liquid phase standard claims heat (enthalpy) (kJ · mol<sup>-1</sup>) : -737.0

### Main use

It is mainly used as lubricant, water resistant agent, solvent, oil carrier and synthetic resin toughening agent. As a chemical reagent, it is mainly used as a stationary liquid for gas chromatography (maximum operating temperature 120°C).