Stearic Acid ethyl ester
Item No. 10008196

CAS Registry No.: 111-61-5
Formal Name: octadecanoic acid, ethyl ester
Synonyms: Ethyl Octadecanoate, Ethyl Stearate, NSC 8919, Octadecanoic Acid ethyl ester
MF: C_{20}H_{40}O_2
FW: 312.5
Purity: ≥ 98%
Supplied as: A solution in ethanol
Storage: -20°C
Stability: ≥ 1 year

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Lab Procedures

Stearic acid ethyl ester is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvent such as dimethyl formamide purged with an inert gas can be used. The solubility of stearic acid ethyl ester in this solvent is approximately 30 mg/ml.

Description

Stearic acid is a saturated fatty acid commonly found in animal and vegetable fats that is frequently used in cosmetics, candles, soaps, plastics, oil pastels, and for softening rubber. Stearic acid ethyl ester (ethyl stearate) is the neutral, more lipid soluble form of the free acid. It perturbs the cell cycle and induces apoptosis in HepG2 cells and is a marker of excessive alcohol consumption that can be isolated from an individual’s hair.1,2

References