Undecanoic Acid
Item No. 19721

CAS Registry No.: 112-37-8
Formal Name: undecanoic acid
Synonyms: NSC 7885, Hendecanoic Acid, Undecylic Acid
MF: C_{11}H_{22}O_2
FW: 186.3
Purity: ≥95%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years

**Laboratory Procedures**

Undecanoic acid is supplied as a crystalline solid. A stock solution may be made by dissolving the undecanoic acid in the solvent of choice, which should be purged with an inert gas. Undecanoic acid is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of undecanoic acid in DMSO is approximately 10 mg/ml and approximately 25 mg/ml in ethanol and DMF. Undecanoic acid is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, undecanoic acid should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Undecanoic acid has a solubility of approximately 0.25 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

**Description**

Undecanoic acid is a saturated fatty acid containing eleven carbons (C11:0). It is cytotoxic to certain filamentous fungi and is used to study fungal mechanisms of resistance. Undecanoic acid is also used to acylate larger molecules.

**References**