PRODUCT INFORMATION

12-doxyl Stearic Acid
Item No. 19259

CAS Registry No.: 29545-47-9
Formal Name: 2-(10-carboxydecyl)-2-hexyl-4,4-dimethyl-3-oxazolidinylxy 
Synonym: 12-DSA
MF: C_{22}H_{42}NO_{4}
FW: 384.6
Purity: ≥95%
UV/Vis.: λ_{max}: 226 nm
Supplied as: A solution in ethanol
Storage: -20°C
Stability: ≥2 years

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

Laboratory Procedures

12-Doxyl stearic acid (12-DSA) 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. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of 12-DSA in these solvents is approximately 20, 10, and 30 mg/ml, respectively.

Description

12-DSA is a form of stearic acid (Item No. 10011298) that contains a 4,4-dimethyl-3-oxazolidinylxy (DOXYL) group, creating a hydrophobic spin label. It is commonly used to study molecular aspects of membranes and hydrophobic proteins.1-3

References