1-Oleoyl-rac-glycerol

Product Number  M 7765  
Storage Temperature  -0 °C

Product Description
Molecular Formula:  C_{21}H_{40}O_{4}  
Molecular Weight:  356.6  
CAS Number:  111-03-5  
Melting Point:  35 °C.\(^1\)  
Synonym:  1-Monoolein

Monoolein has been used for liquid crystal structure studies.\(^2\)

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions
The product is soluble in chloroform (50 mg/ml). It is soluble in hexane and can be crystallized from hexane. In water it tends to form a gel or emulsion. Two ml of a DMSO solution (10 mg/ml) of this product can be stirred slowly into 1L of perfusate containing albumin and salts. A slightly cloudy emulsion is formed.

Storage/Stability
Migration of the esterified fatty acid can readily occur.\(^1\) During storage this could result in a very small amount of dioleoyl glycerol or 2-monooleoyl glycerol. This interconversion is potentially greater in solution, particularly under acidic or alkaline conditions.

References

RLG/RXR  10/02