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# **ProductInformation**

## 1-Oleoyl-rac-glycerol

Product Number **M 7765** Storage Temperature -0 °C

### **Product Description**

Molecular Formula: C<sub>21</sub>H<sub>40</sub>O<sub>4</sub> Molecular Weight: 356.6 CAS Number: 111-03-5 Melting Point: 35 °C.<sup>1</sup> Synonym: 1-Monoolein

Monoolein has been used for liquid crystal structure studies.<sup>2</sup>

#### **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.<sup>1</sup> 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

- Data for Biochemical Research, 3rd ed., Dawson, R. M. C., et al., Oxford University Press (New York, NY: 1986), pp. 178-179.
- Caboi, F., et al., Addition of Hydrophilic and Lipophilic Compounds of Biological Relevance to the Monoolein/Water System. I. Phase behavior. Chem. Phys. Lipids, 109(1), 47-62 (2001).

RLG/RXR 10/02