PRODUCT INFORMATION

Cholesteryl Palmitoleate
Item No. 26474

CAS Registry No.:  16711-66-3
Formal Name:  (3β)-cholest-5-en-3-ol 3-[(9Z)-9-hexadecenoate]
Synonyms:  16:1(9Z) CE, CE[16:1], 16:1(9Z) Cholesterol ester, Cholesterol Palmitoleate
MF:  C_{43}H_{74}O_{2}
FW:  623.1
Purity:  ≥95%
Supplied as:  A neat oil
Storage:  -20°C
Stability:  ≥1 year

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

Labaratory Procedures

Cholesteryl palmitoleate is supplied as a neat oil. A stock solution may be made by dissolving the cholesteryl palmitoleate in the solvent of choice. Cholesteryl palmitoleate is soluble in the organic solvent chloroform, which should be purged with an inert gas, at a concentration of approximately 10 mg/ml.

Description

Cholesteryl palmitoleate is a cholesterol ester.\(^1-3\) Plasma levels of cholesteryl palmitoleate are increased in ApoE\(^{-/-}\) mice exposed to cigarette smoke and in pediatric patients with biliary atresia.\(^1,2\) Cholesteryl palmitoleate has been used as a standard for the identification of cholesterol esters in human meibomian gland secretions.\(^3\)

References