Lauroyl-DL-Carnitine (chloride)

Item No. 16006

CAS Registry No.: 14919-37-0
Formal Name: 3-carboxy-N,N,N-trimethyl-2-[(1-oxododecyl)oxy]-1-propanaminium, monochloride
Synonyms: CAR 12:0, C12:O Carnitine, DL-Carnitine lauroyl ester, DL-Lauroylcarnitine
MF: C₁₉H₃₈NO₄ • Cl
FW: 380.0
Purity: ≥95%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years

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

Laboratory Procedures

Lauroyl-DL-carnitine (chloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the lauroyl-DL-carnitine (chloride) in the solvent of choice, which should be purged with an inert gas. Lauroyl-DL-carnitine (chloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of lauroyl-DL-carnitine (chloride) in ethanol and DMF is approximately 20 mg/ml and approximately 10 mg/ml in DMSO.

Description

Lauroyl-DL-carnitine is a zwitterionic, long-chain acylcarnitine used to improve in vivo absorption of certain hydrophilic compounds, especially through mucosal membranes.¹⁻³

References