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Product Specifications

Catalogue Number 32922
Product **L-Alanine-7-amido-4-methylcoumarin**

L-Ala-AMC

CAS Number 77471-41-1

Molecular Formula C₁₃H₁₄N₂O₃

Molecular Weight 246.1

Appearance White powder

Solubility Clear colorless solution (50 mg/ml in 80% acetic acid)

Elemental Analysis (Theory) C = 63.0%, H = 5.8%, N = 11.3%
Calculated as x 0.096 H₂O (0.7%)

Water Content (Karl Fisher) ≤ 1.0%

TLC System Chloroform / Methanol / Acetic acid 32% : (5:3:1)
n-butanol / Acetic acid / Water : (4:2:2)
Ethylacetate / Pyridine / Acetic acid / Water : (60:20:6:11)
Plate : Silicagel 60 F₂₅₄
Detected by : UV (366 nm), ninhydrin, TMB

Related Substances 7-amino-4-methylcoumarin (AMC) : ≤ 0.1%

Assay ≥ 99% (Nth ~ 11.38% by elemental analysis)

Purity by TLC ≥ 99%

Storage Store at 2-8 °C

For Laboratory Use Only