



CERTIFICATE OF ANALYSIS

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1. Identification

CAS Number:

121734-79-0

Catalogue Number:

TRC-P320890

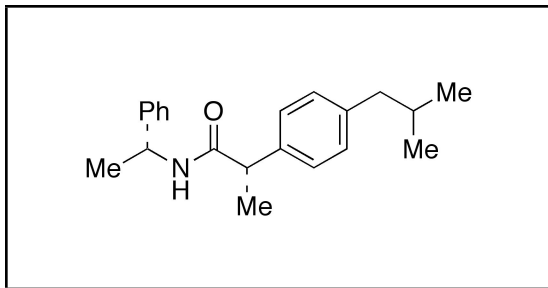
Product:

(R,S)-N-(1-Phenylethyl) Ibuprofen Amide

Synonyms:

(αS)-α-Methyl-4-(2-methylpropyl)-N-[(1R)-1-phenylethyl]benzeneacetamide;
[R-(R*,S*)]-α-Methyl-4-(2-methylpropyl)-N-(1-phenylethyl)benzeneacetamide;

Structure:



Molecular Formula:

C₂₁H₂₇NO

Molecular Weight:

309.45

Source of Product:

Synthetic

2. Analytical Information

Lot Number:

5-JGC-172-1

Atmosphere:

Air

Melting Point:

96 - 98°C

Solubility

Chloroform (Slightly), Methanol (Slightly)

Appearance of Product:

White Solid

Stability

Not Determined

Method for Determining Identity:

¹H NMR (CDCl₃) and MS

Long Term Storage Condition:

-20°C

Purity:

98%

Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature

97.68% by UPLC

Additional Information:

TLC Conditions: SiO₂; Dichloromethane : Methanol = 9.5 : 0.5; Visualized with UV, AMCS, and KMnO₄; Single Spot, R_f = 0.75.

¹H NMR and MS conform to structure.

Elemental Analysis: (Found) %C: 81.81, %H: 9.02, %N: 4.52; (Calculated) %C: 81.51, %H: 8.79, %N: 4.53

Specific Rotation: -15.1° (c = 0.4, Chloroform)

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed.

The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

Philip Chan, Head of Quality Assurance

QC Test Date

July 11, 2018

Retest Date

July 9, 2022