



CERTIFICATE OF ANALYSIS

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1. Identification

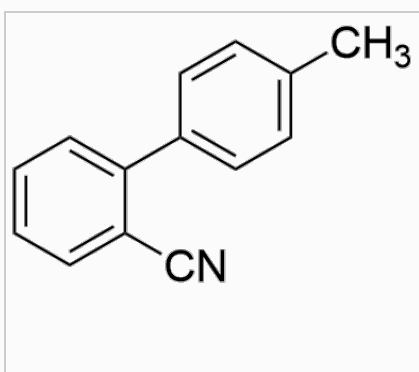
Catalogue Number: M294115

CAS Number: 114772-53-1

Product: 4'-Methylbiphenyl-2-carbonitrile

Synonym: 2-(4-Methylphenyl)benzonitrile; 2-(p-Tolyl)benzonitrile; 2-Cyano-4'-methyl-1,1'-biphenyl; 2-Cyano-4'-methylbiphenyl; 2'-Cyano-4-methylbiphenyl; 4-Methyl-2'-cyanobiphenyl; 4'-Methyl-2-cyanobiphenyl; 4'-Methyl[1,1'-biphenyl]-2-carbonitrile; 4'-Methyl-[1,1'-biphenyl]-2-carbonitrile

Structure:



Molecular Formula:

C₁₄H₁₁N

Molecular weight:

193.24

Source of Product:

N/A

Solubility:

Chloroform (Slightly),
Methanol (Slightly)

Lot Number: 31-SSR-111-1

Purity: 98%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: 4°C

2. Warning

Warning 1: Not Determined

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Pale Yellow Solid	White to Off-White Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
FT-IR	Conforms to Structure	Conforms
HPLC Purity	>95%	99.78% (220 nm)
Elemental Analysis	Conforms	%C: 86.91, %H: 5.43, %N: 7.16

Additional Information:

TLC Conditions: SiO₂; Hexanes : Ethyl Acetate = 8 : 2; Visualized with UV and AMCS; Single Spot, R_f = 0.50. Elemental Analysis: (Theoretical) %C: 87.01, %H: 5.74, %N: 7.25

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.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Eric Beaton	Toni Rantanen	My Nguyen	2/20/2020	2/18/2027
				