



CERTIFICATE OF ANALYSIS

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1. Identification

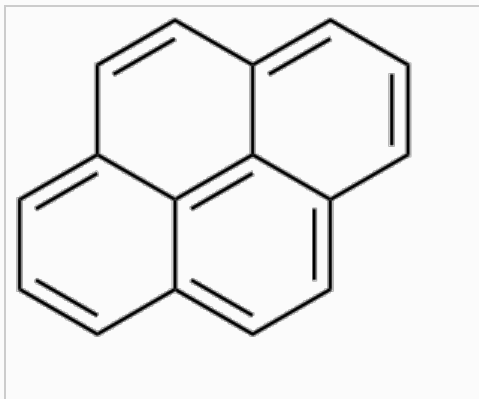
Catalogue Number: P849000

CAS Number: 129-00-0

Product: Pyrene

Synonym: Benzo[def]phenanthrene; NSC 17534; NSC 66449;

Structure:



Molecular Formula:

C₁₆H₁₀

Molecular weight:

202.25

Source of Product:

N/A

Solubility:

Chloroform (Slightly),
Methanol (Very Slightly,
Sonicated)

Lot Number: 9-SCC-150-1

Purity: 97%

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	Light Brown to Dark Brown Solid	Light Brown to Dark Brown Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 94.97, %H: 5.01
C NMR	Conforms to Structure	Conforms
HPLC Purity	>95%	98.21% (240 nm)
TGA	Report Result	See Additional Information
Water Content	Report Result	No Water Detected by Karl Fischer
FT-IR	Conforms to Structure	Conforms

Additional Information:

TLC Conditions: SiO₂; Hexanes : Ethyl Acetate = 8 : 2; Visualized with UV and AMCS; Single Spot, R_f = 0.75. Elemental Analysis: (Theoretical) %C: 95.02, %H: 4.98. The sample was tested by TGA, initiated in a nitrogen environment. The degradation onset temperature was measured at 212.8°C. The environment was changed to air at 800.0°C. The sample had 0.2% of its weight remaining at 996.8°C.

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
Neha Khanna	Toni Rantanen	My Nguyen	12/11/2019	12/9/2026
				