



>>Entry Name: 2-Amino-1-cyclopentene-1-carboxylic acid



Molecular Formula: C₆H₉NO₂

Molecular Weight: 127.143

Accurate Mass: 127.063329

Percentage Composition: C 56.68%; H 7.13%; N 11.02%; O 25.17%

>>Derivative: Et ester

CAS Registry Number: 7149-18-0

Molecular Formula: C₈H₁₃NO₂

Molecular Weight: 155.196

Accurate Mass: 155.094629

Percentage Composition: C 61.91%; H 8.44%; N 9.03%; O 20.62%

Physical Description: Cryst. (petrol)

Melting Point: Mp 58-60°

>>Derivative: Et ester, N-ethoxycarbonyl

Molecular Formula: C₁₁H₁₇NO₄

Molecular Weight: 227.26

Accurate Mass: 227.115759

Percentage Composition: C 58.14%; H 7.54%; N 6.16%; O 28.16%

Physical Description: Cryst.

Melting Point: Mp 50-52°

>>Derivative: Nitrile

Synonym(s): 2-Amino-1-cyclopentene-1-carbonitrile, 9Cl. 1-Amino-2-cyanocyclopentene

CAS Registry Number: 2941-23-3

Molecular Formula: C₆H₈N₂

Molecular Weight: 108.143

Accurate Mass: 108.068748

Percentage Composition: C 66.64%; H 7.46%; N 25.90%

Physical Description: Pale yellow needles (CHCl₃)

Melting Point: Mp 147-148°

References:

Prelog, V. *et al.*, *Helv. Chim. Acta*, 1945, **28**, 1684, (*synth, uv*)

Thompson, Q.E., *J.A.C.S.*, 1958, **80**, 5483, (*nitrile*)

Takaya, T. *et al.*, *Bull. Chem. Soc. Jpn.*, 1968, **41**, 2176, (*synth*)