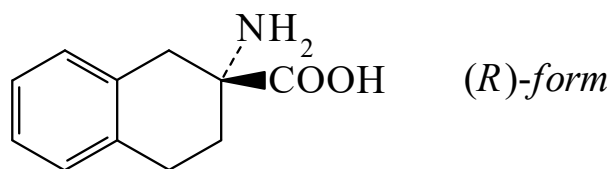




>>Entry Name: 2-Amino-1,2,3,4-tetrahydro-2-naphthalenecarboxylic acid

Synonym(s): 2-Aminotetralin-2-carboxylic acid



CAS Registry Number: 74444-77-2

Related CAS Registry Numbers(s): 104974-45-0 144646-53-7 144732-06-9

Molecular Formula: C₁₁H₁₃NO₂

Molecular Weight: 191.229

Accurate Mass: 191.094629

Percentage Composition: C 69.09%; H 6.85%; N 7.32%; O 16.73%

Use/Importance: Conformationally strained phenylalanine analogue

>>Variant: (R)-form

CAS Registry Number: 104974-44-9

Molecular Formula: C₁₁H₁₃NO₂

Molecular Weight: 191.229

Accurate Mass: 191.094629

Percentage Composition: C 69.09%; H 6.85%; N 7.32%; O 16.73%

>>Derivative: N-Benzoyl

CAS Registry Number: 144732-19-4

Molecular Formula: C₁₈H₁₇NO₃

Molecular Weight: 295.337

Accurate Mass: 295.120844

Percentage Composition: C 73.20%; H 5.80%; N 4.74%; O 16.25%

Physical Description: Solid

Melting Point: Mp 195-196°

Optical Rotation: [α]_D -26.18 (c, 0.5 in MeOH)

>>Derivative: N-Benzoyl, Me ester

CAS Registry Number: 144732-05-8

Molecular Formula: C₁₉H₁₉NO₃

Molecular Weight: 309.364

Accurate Mass: 309.136494

Percentage Composition: C 73.77%; H 6.19%; N 4.53%; O 15.52%

Physical Description: Amorph. solid

Melting Point: Mp 102.5-103°

Optical Rotation: [α]_D -19.58 (c, 0.5 in MeOH)

>>Derivative: N-tert-Butyloxycarbonyl, Me ester

CAS Registry Number: 144646-55-9

Molecular Formula: C₁₇H₂₃NO₄

Molecular Weight: 305.373

Accurate Mass: 305.162709

Percentage Composition: C 66.86%; H 7.59%; N 4.59%; O 20.96%

Physical Description: Viscous yellow liq.

Optical Rotation: [α]_D -25 (c, 0.5 in MeOH)

>>Variant: (±)-form

CAS Registry Number: 6331-63-1

Molecular Formula: C₁₁H₁₃NO₂

Molecular Weight: 191.229

Accurate Mass: 191.094629

Percentage Composition: C 69.09%; H 6.85%; N 7.32%; O 16.73%

Physical Description: Cryst. (EtOH/H₂O)

Melting Point: Mp 315° (309-310°)