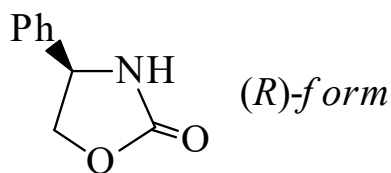




>>Entry Name: 4-Phenyl-2-oxazolidinone, 9CI

Synonym(s): 4-Phenyl-1,3-oxazolidine-2-one



CAS Registry Number: 7480-32-2

Molecular Formula: $C_9H_9NO_2$

Molecular Weight: 163.176

Accurate Mass: 163.063329

Percentage Composition: C 66.25%; H 5.56%; N 8.58%; O 19.61%

>>Variant: (R)-form

CAS Registry Number: 90319-52-1

Molecular Formula: $C_9H_9NO_2$

Molecular Weight: 163.176

Accurate Mass: 163.063329

Percentage Composition: C 66.25%; H 5.56%; N 8.58%; O 19.61%

Physical Description: Cryst. (toluene)

Melting Point: Mp 135-136°

Optical Rotation: $[\alpha]_D -69.7$ (c, 0.86 in EtOAc)

Aldrich: 40245-1

Fluka: 78874

Sigma: P8338

>>Variant: (S)-form

CAS Registry Number: 99395-88-7

Molecular Formula: $C_9H_9NO_2$

Molecular Weight: 163.176

Accurate Mass: 163.063329

Percentage Composition: C 66.25%; H 5.56%; N 8.58%; O 19.61%

Use/Importance: Chiral resolving agent

Physical Description: Cryst. (EtOAc/hexane)

Melting Point: Mp 128-138°

Optical Rotation: $[\alpha]_D^{22} +58$ (c, 1 in $CHCl_3$)

Aldrich: 37669-8

Fluka: 78875

Sigma: P8213

>>Variant: ($\pm$)-form

CAS Registry Number: 86217-38-1

Molecular Formula: $C_9H_9NO_2$

Molecular Weight: 163.176

Accurate Mass: 163.063329

Percentage Composition: C 66.25%; H 5.56%; N 8.58%; O 19.61%

Melting Point: Mp 136.8-137.8°

>>Derivative: 3-Ph

Synonym(s): 3,4-Diphenyl-2-oxazolidinone, 9CI. 3,4-Diphenyl-1,3-oxazolidin-2-one

CAS Registry Number: 13606-71-8

Molecular Formula: $C_{15}H_{13}NO_2$

Molecular Weight: 239.273

Accurate Mass: 239.094629

Percentage Composition: C 75.30%; H 5.48%; N 5.85%; O 13.37%

Physical Description: Prisms ($CHCl_3$ /petrol)

Melting Point: Mp 128-129°

References: