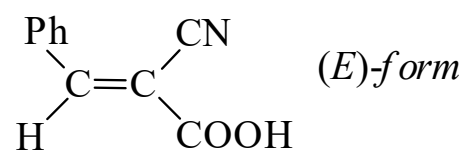




>>Entry Name: **2-Cyano-3-phenyl-2-propenoic acid**, 9CI

Synonym(s): α -Cyanocinnamic acid. Benzyldenemalonic acid mononitrile. α -Cyano- β -phenylacrylic acid



CAS Registry Number: 1011-92-3

Molecular Formula: C₁₀H₇NO₂

Molecular Weight: 173.171

Accurate Mass: 173.047679

Percentage Composition: C 69.36%; H 4.07%; N 8.09%; O 18.48%

>>Variant: (*E*)-form

CAS Registry Number: 14378-06-4

Molecular Formula: C₁₀H₇NO₂

Molecular Weight: 173.171

Accurate Mass: 173.047679

Percentage Composition: C 69.36%; H 4.07%; N 8.09%; O 18.48%

Melting Point: Mp 180°

>>Derivative: Me ester

CAS Registry Number: 3695-84-9

Molecular Formula: C₁₁H₉NO₂

Molecular Weight: 187.198

Accurate Mass: 187.063329

Percentage Composition: C 70.58%; H 4.85%; N 7.48%; O 17.09%

Melting Point: Mp 89° (80°)

Solubility: Sol. Et₂O, CHCl₃, mod. sol. EtOH, C₆H₆

Other Data: (*E*)-config. is probable

Rare Chemicals Library: S35276-4

>>Derivative: Et ester

CAS Registry Number: 2169-69-9

Extra CAS Registry Numbers(s): 2025-40-3

Molecular Formula: C₁₂H₁₁NO₂

Molecular Weight: 201.224

Accurate Mass: 201.078979

Percentage Composition: C 71.63%; H 5.51%; N 6.96%; O 15.90%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 46-48° (51°)

Aldrich: 27273-6

>>Derivative: Amide

CAS Registry Number: 709-79-5

Molecular Formula: C₁₀H₈N₂O

Molecular Weight: 172.186

Accurate Mass: 172.063663

Percentage Composition: C 69.76%; H 4.68%; N 16.27%; O 9.29%

Physical Description: Prisms

Melting Point: Mp 123°

Other Data: (*E*)-config. is probable

Rare Chemicals Library: S3702-9

References: