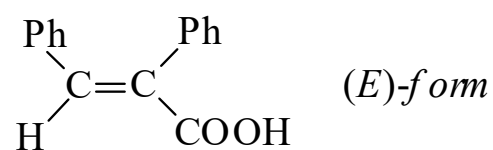




>>Entry Name: **2,3-Diphenyl-2-propenoic acid**, 9CI

Synonym(s): 2,3-Diphenylacrylic acid.  $\alpha$ -Phenylcinnamic acid. Stilbene- $\alpha$ -carboxylic acid



CAS Registry Number: 3368-16-9

Related CAS Registry Numbers(s): 2510-95-4

Molecular Formula:  $\text{C}_{15}\text{H}_{12}\text{O}_2$

Molecular Weight: 224.259

Accurate Mass: 224.08373

Percentage Composition: C 80.34%; H 5.39%; O 14.27%

Rare Chemicals Library: S9164-3

>>Variant: (*E*)-form

Synonym(s): *cis*-form

CAS Registry Number: 91-48-5

Molecular Formula:  $\text{C}_{15}\text{H}_{12}\text{O}_2$

Molecular Weight: 224.259

Accurate Mass: 224.08373

Percentage Composition: C 80.34%; H 5.39%; O 14.27%

Physical Description: Needles (petrol or EtOH aq.)

Melting Point: Mp 172-174°

pKa Value:  $\text{p}K_{\text{a}}$  4.44 ( $\text{H}_2\text{O}$ )

Aldrich: P2200-1

>>Derivative: Me ester

CAS Registry Number: 32892-18-5

Molecular Formula:  $\text{C}_{16}\text{H}_{14}\text{O}_2$

Molecular Weight: 238.285

Accurate Mass: 238.09938

Percentage Composition: C 80.65%; H 5.92%; O 13.43%

Physical Description: Needles (EtOH aq.)

Melting Point: Mp 77-78°

>>Derivative: Et ester

CAS Registry Number: 24446-63-7

Molecular Formula:  $\text{C}_{17}\text{H}_{16}\text{O}_2$

Molecular Weight: 252.312

Accurate Mass: 252.11503

Percentage Composition: C 80.93%; H 6.39%; O 12.68%

Physical Description: Cryst.

Melting Point: Mp 28°. Mp 33-34°

Boiling Point:  $\text{Bp}_{28}$  214-215°.  $\text{Bp}_{13}$  192°

Density:  $\text{d}_4^{18}$  1.097

>>Derivative: Amide

CAS Registry Number: 20432-29-5

Molecular Formula:  $\text{C}_{15}\text{H}_{13}\text{NO}$

Molecular Weight: 223.274

Accurate Mass: 223.099714

Percentage Composition: C 80.69%; H 5.87%; N 6.27%; O 7.17%

Physical Description: Needles ( $\text{Me}_2\text{CO}$  aq.)

Melting Point: Mp 127°