



>>Entry Name: 1,5-Diphenyl-1,4-pentadien-3-one, 9CI

Synonym(s): Dibenzylideneacetone. Distyryl ketone. Styryl ketone. Styrol ketone

CAS Registry Number: 538-58-9

Related CAS Registry Numbers(s): 6502-37-0 79616-73-2

PhCH=CHCOCH=CHPh

Molecular Formula: C₁₇H₁₄O

Molecular Weight: 234.297

Accurate Mass: 234.104465

Percentage Composition: C 87.15%; H 6.02%; O 6.83%

Fluka: 43143

Rare Chemicals Library: S60892-0

>>Variant: (E,E)-form

CAS Registry Number: 35225-79-7

Molecular Formula: C₁₇H₁₄O

Molecular Weight: 234.297

Accurate Mass: 234.104465

Percentage Composition: C 87.15%; H 6.02%; O 6.83%

Use/Importance: Used in sun protection preps.

Physical Description: Yellow cryst. (EtOH)

Melting Point: Mp 110-111° (118°)

Aldrich: 24642-5

>>Derivative: Oxime

Molecular Formula: C₁₇H₁₅NO

Molecular Weight: 249.312

Accurate Mass: 249.115364

Percentage Composition: C 81.90%; H 6.06%; N 5.62%; O 6.42%

Physical Description: Cryst.

Melting Point: Mp 142-144°

>>Derivative: Semicarbazone

Physical Description: Cryst.

Melting Point: Mp 187-190°

>>Derivative: Phenylhydrazone

Physical Description: Yellow needles

Melting Point: Mp 152-153°

>>Variant: (E,Z)-form

Molecular Formula: C₁₇H₁₄O

Molecular Weight: 234.297

Accurate Mass: 234.104465

Percentage Composition: C 87.15%; H 6.02%; O 6.83%

Physical Description: Light-yellow needles (EtOH)

Melting Point: Mp 60°

>>Variant: (Z,Z)-form

CAS Registry Number: 58321-78-1

Molecular Formula: C₁₇H₁₄O

Molecular Weight: 234.297

Accurate Mass: 234.104465

Percentage Composition: C 87.15%; H 6.02%; O 6.83%

Physical Description: Yellow oil

Boiling Point: Bp_{0.02} 130°

References: