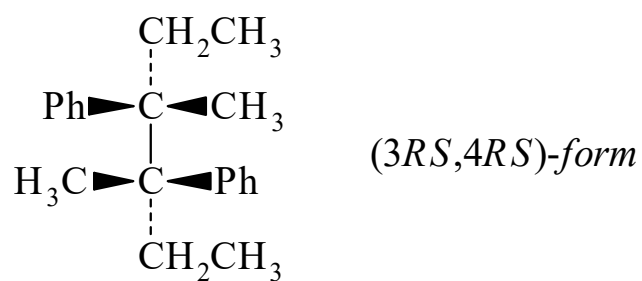




>>Entry Name: 3,4-Dimethyl-3,4-diphenylhexane

Synonym(s): 1,1'-(1,2-Diethyl-1,2-dimethyl-1,2-ethanediyl)bisbenzene, 9Cl. α,α' -Diethyl- α,α' -dimethylbibenzyl, 8Cl



CAS Registry Number: 10192-93-5

Molecular Formula: C₂₀H₂₆

Molecular Weight: 266.425

Accurate Mass: 266.20345

Percentage Composition: C 90.16%; H 9.84%

Use/Importance: Fireproofing agent for plastics

>>Variant: (3*RS*,4*RS*)-form

Synonym(s): ($\pm$)-form

CAS Registry Number: 62678-50-6

Molecular Formula: C₂₀H₂₆

Molecular Weight: 266.425

Accurate Mass: 266.20345

Percentage Composition: C 90.16%; H 9.84%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 56-57°

>>Variant: (3*RS*,4*SR*)-form

Synonym(s): *meso*-form

CAS Registry Number: 62678-49-3

Molecular Formula: C₂₀H₂₆

Molecular Weight: 266.425

Accurate Mass: 266.20345

Percentage Composition: C 90.16%; H 9.84%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 98-98.5°

References:

Gouverneur, P.J.L. *et al.*, *Bull. Soc. Chim. Belg.*, 1977, **86**, 699; 717, (*cryst struct*)

Beckhaus, H.D. *et al.*, *Chem. Ber.*, 1977, **110**, 878, (*synth*)

Kratt, G. *et al.*, *Chem. Ber.*, 1983, **116**, 3235, (*synth*)