



>>Entry Name: **1,4-Diphenyl-1,3-butadiene**, 8Cl

Synonym(s): 1,1'-(1,3-Butadiene-1,4-diyl)bisbenzene, 9Cl. Distyryl. Bistyryl

CAS Registry Number: 886-65-7

PhCH=CHCH=CHPh

Molecular Formula: C<sub>16</sub>H<sub>14</sub>

Molecular Weight: 206.287

Accurate Mass: 206.10955

Percentage Composition: C 93.16%; H 6.84%

Other Data: Resistant to polym.

Aldrich: D20600-8

Rare Chemicals Library: S46251-9

Sigma: D5268

>>Variant: (*E,E*)-form

CAS Registry Number: 538-81-8

Molecular Formula: C<sub>16</sub>H<sub>14</sub>

Molecular Weight: 206.287

Accurate Mass: 206.10955

Percentage Composition: C 93.16%; H 6.84%

Use/Importance: Diels-Alder diene

Physical Description: Leaflets

Melting Point: Mp 149-150° (145-150°)

Boiling Point: Bp 350°

Fluka: 42820

>>Variant: (*E,Z*)-form

CAS Registry Number: 5808-05-9

Molecular Formula: C<sub>16</sub>H<sub>14</sub>

Molecular Weight: 206.287

Accurate Mass: 206.10955

Percentage Composition: C 93.16%; H 6.84%

Physical Description: Oil

Other Data: Reverts to (*E,E*)-form in the presence of light

>>Variant: (*Z,Z*)-form

CAS Registry Number: 5807-76-1

Molecular Formula: C<sub>16</sub>H<sub>14</sub>

Molecular Weight: 206.287

Accurate Mass: 206.10955

Percentage Composition: C 93.16%; H 6.84%

Physical Description: Leaflets or needles

Melting Point: Mp 69-70°

>>Derivative: Picrate

Melting Point: Mp 152-153°

References: