>>**Entry Name: 1,7-Diphenyl-4,6-heptadien-3-one,** 9Cl

CAS Registry Number: 38940-11-3
Related CAS Registry Numbers(s): 58506-34-6
$PhCH_2CH_2COCH=CHCH=CHPh$

Molecular Formula: $C_{19}H_{18}O$
Molecular Weight: 262.351
Accurate Mass: 262.135765
Percentage Composition: C 86.99%; H 6.92%; O 6.10%

>>**Variant:** (*E,E*)-form
Synonym(s): Alnustone

CAS Registry Number: 33457-62-4
Type of Compound Code(s): VG7000
Molecular Formula: $C_{19}H_{18}O$
Molecular Weight: 262.351
Accurate Mass: 262.135765
Percentage Composition: C 86.99%; H 6.92%; O 6.10%
Biological Source: Constit. of *Alnus pendula* and *Curcuma xanthorrhiza*
Physical Description: Pale-yellow needles (EtOH)
Melting Point: Mp 63-63.5° (61-62.5°)

>>**Derivative:** 2,4-Dinitrophenylhydrazone

CAS Registry Number: 38940-16-8
Physical Description: Red cryst. (EtOAc)
Melting Point: Mp 188-189°

>>**Derivative:** 4,5-Dihydro
Synonym(s): 1,7-Diphenyl-6-hepten-3-one

CAS Registry Number: 87030-31-7
Type of Compound Code(s): VG7000
Molecular Formula: $C_{19}H_{20}O$
Molecular Weight: 264.366
Accurate Mass: 264.151415
Percentage Composition: C 86.32%; H 7.63%; O 6.05%
Biological Source: Constit. of *Curcuma comosa*
Physical Description: Oil

References:

Sakakibaba, M. *et al.*, *Agric. Biol. Chem.*, 1972, **36**, 1825, *(synth)*
Suga, T. *et al.*, *Bull. Chem. Soc. Jpn.*, 1972, **45**, 2058, *(isol)*
Vig, O.P. *et al.*, *Indian J. Chem.*, 1975, **13**, 1129, *(synth)*
Jurgens, T.M. *et al.*, *J. Nat. Prod.*, 1994, **57**, 230-235, *(1,7-Diphenyl-6-hepten-3-one)*