1-(Acetoxy methyl)-2,2-diphenyl cyclopropane

Inchi: InChI=1S/C18H18O2/c1-14(19)20-13-17-12-18(17,15-8-4-2-5-9-15)16-10-6-3-7-11-16/h2
InchiKey: UDRNSHWOVXPEDX-UHFFFAOYSA-N
Formula: C18H18O2
SMILES: CC(=O)OCC1CC1(c1ccccc1)c1ccccc1
Mol. weight [g/mol]: 266.33
CAS: 54835-94-8

Physical Properties

Property code	Value	Unit	Source
gf	139.13	kJ/mol	Joback Method
hf	-118.89	kJ/mol	Joback Method
hfus	26.15	kJ/mol	Joback Method
hvap	67.82	kJ/mol	Joback Method
log10ws	-3.85		Crippen Method
logp	3.556		Crippen Method
mcvol	213.540	ml/mol	McGowan Method
pc	2276.24	kPa	Joback Method
tb	743.20	K	Joback Method
tc	990.41	K	Joback Method
tf	455.22	K	Joback Method
vc	0.805	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	609.16	J/mol×K	743.20	Joback Method
cpg	627.22	J/mol×K	784.40	Joback Method
cpg	644.35	J/mol×K	825.60	Joback Method
cpg	660.81	J/mol×K	866.80	Joback Method
cpg	676.82	J/mol×K	908.01	Joback Method
cpg	692.62	J/mol×K	949.21	Joback Method
cpg	708.45	J/mol×K	990.41	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C54835948&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume