2-Propenoic acid, 3-phenyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, endo-

Other names: Bornyl cinnamate
Cinnamic acid, 2-bornyl ester, endo-
Bornyl cinnamate 1
Bornyl cinnamate 2
endo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl cinnamate
(1R,2S,4R)-1,7,7-Trimethylbicyclo[2.2.1]heptan-2-yl cinnamate

Inchi: InChI=1S/C19H24O2/c1-18(2)15-11-12-19(18,3)16(13-15)21-17(20)10-9-14-7-5-4-6-8-14

InchiKey: ACTRLDZRLKIJEH-MDZDMXLPSA-N

Formula: C19H24O2

SMILES: CC1(C)C2CCC1(C)C(OC(=O)C=Cc1ccccc1)C2

Mol. weight [g/mol]: 284.39

CAS: 6330-67-2

Physical Properties

Property code	Value	Unit	Source
gf	150.81	kJ/mol	Joback Method
hf	-197.30	kJ/mol	Joback Method
hfus	25.71	kJ/mol	Joback Method
hvap	66.36	kJ/mol	Joback Method
log10ws	-4.94		Crippen Method
logp	4.458		Crippen Method
mcvol	236.230	ml/mol	McGowan Method
pc	1883.80	kPa	Joback Method
rinpol	2222.70		NIST Webbook
rinpol	2222.70		NIST Webbook
tb	750.14	K	Joback Method
tc	989.00	K	Joback Method
tf	469.07	K	Joback Method
vc	0.895	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	713.15	J/mol×K	750.14	Joback Method

cpg	734.31	J/mol×K	789.95	Joback Method
cpg	755.03	J/mol×K	829.76	Joback Method
cpg	775.69	J/mol×K	869.57	Joback Method
cpg	796.62	J/mol×K	909.38	Joback Method
cpg	818.19	J/mol×K	949.19	Joback Method
cpg	840.75	J/mol×K	989.00	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6330672&Units=SI
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

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume