1,7-Dimethyl-4-(propan-2-ylidene)tricyclo[4.4.0.02

Inchi: InChI=1S/C15H22O/c1-9(2)10-8-11-14(3)6-5-7-15(11,4)13(14)12(10)16/h11,13H,5-8H2,1
InchiKey: BBZWSYDKASNBSO-UHFFFAOYSA-N
Formula: C15H22O
SMILES: CC(C)=C1CC2C3(C)CCCC2(C)C3C1=O
Mol. weight [g/mol]: 218.33
CAS: 62332-96-1

Physical Properties

Property code	Value	Unit	Source
gf	141.20	kJ/mol	Joback Method
hf	-202.01	kJ/mol	Joback Method
hfus	13.91	kJ/mol	Joback Method
hvap	51.40	kJ/mol	Joback Method
log10ws	-3.95		Crippen Method
logp	3.738		Crippen Method
mcvol	186.900	ml/mol	McGowan Method
pc	2231.30	kPa	Joback Method
rinpol	1746.20		NIST Webbook
tb	637.24	K	Joback Method
tc	875.97	K	Joback Method
tf	417.29	K	Joback Method
vc	0.725	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	539.35	J/mol×K	637.24	Joback Method
cpg	560.19	J/mol×K	677.03	Joback Method
cpg	579.99	J/mol×K	716.82	Joback Method
cpg	599.08	J/mol×K	756.61	Joback Method
cpg	617.81	J/mol×K	796.40	Joback Method
cpg	636.50	J/mol×K	836.18	Joback Method
cpg	655.50	J/mol×K	875.97	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C62332961&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