8-Isopropyl-1,5-dimethyltricyclo[4.4.0.02,7]dec-4-e

Inchi: InChI=1S/C15H22O/c1-8(2)10-5-6-15(4)13-9(3)7-11(16)14(15)12(10)13/h7-8,10,12-14H,
InchiKey: CTFSUCDHRVDRKG-UHFFFAOYSA-N
Formula: C15H22O
SMILES: CC1=CC(=O)C2C3C(C(C)C)CCC2(C)C13
Mol. weight [g/mol]: 218.33
CAS: 1209-91-2

Physical Properties

Property code	Value	Unit	Source
gf	119.96	kJ/mol	Joback Method
hf	-262.80	kJ/mol	Joback Method
hfus	19.57	kJ/mol	Joback Method
hvap	51.94	kJ/mol	Joback Method
log10ws	-3.47		Crippen Method
logp	3.450		Crippen Method
mcvol	186.900	ml/mol	McGowan Method
pc	2066.12	kPa	Joback Method
rinpol	1687.10		NIST Webbook
tb	629.51	K	Joback Method
tc	856.33	K	Joback Method
tf	391.03	K	Joback Method
vc	0.722	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	543.93	J/mol×K	629.51	Joback Method
cpg	565.20	J/mol×K	667.31	Joback Method
cpg	585.26	J/mol×K	705.12	Joback Method
cpg	604.29	J/mol×K	742.92	Joback Method
cpg	622.48	J/mol×K	780.72	Joback Method
cpg	639.98	J/mol×K	818.53	Joback Method
cpg	656.99	J/mol×K	856.33	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1209912&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