8,9,10-trinorborn-5-ene-2-spiro-1'-(2'-butyroxycyc

Inchi: InChI=1S/C16H24O2/c1-2-5-15(17)18-14-6-3-4-9-16(14)11-12-7-8-13(16)10-12/h7-8,12-
InchiKey: NGCMNMVPUGHUDL-UHFFFAOYSA-N
Formula: C16H24O2
SMILES: CCCC(=O)OC1CCCCC12CC1C=CC2C1
Mol. weight [g/mol]: 248.36

Physical Properties

Property code	Value	Unit	Source
gf	12.63	kJ/mol	Joback Method
hf	-365.77	kJ/mol	Joback Method
hfus	24.08	kJ/mol	Joback Method
hvap	59.45	kJ/mol	Joback Method
log10ws	-4.31		Crippen Method
logp	3.855		Crippen Method
mcvol	206.860	ml/mol	McGowan Method
pc	2075.54	kPa	Joback Method
rinpol	1757.00		NIST Webbook
ripol	2214.30		NIST Webbook
tb	669.53	K	Joback Method
tc	892.79	K	Joback Method
tf	405.92	K	Joback Method
vc	0.785	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	618.08	J/mol×K	669.53	Joback Method
cpg	639.34	J/mol×K	706.74	Joback Method
cpg	659.40	J/mol×K	743.95	Joback Method
cpg	678.44	J/mol×K	781.16	Joback Method
cpg	696.64	J/mol×K	818.37	Joback Method
cpg	714.19	J/mol×K	855.58	Joback Method
cpg	731.27	J/mol×K	892.79	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R327787&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume