11,11-Dimethyl-4,8-dimethylenebicyclo[7.2.0]unde

Inchi: InChI=1S/C15H24O/c1-10-6-5-7-11(2)14(16)8-13-12(10)9-15(13,3)4/h12-14,16H,1-2,5-9
InchiKey: QQSSOERUYIHBRS-UHFFFAOYSA-N
Formula: C15H24O
SMILES: C=C1CCCC(=C)C2CC(C)(C)C2CC1O
Mol. weight [g/mol]: 220.35
CAS: 79580-01-1

Physical Properties

Property code	Value	Unit	Source
gf	84.85	kJ/mol	Joback Method
hf	-247.32	kJ/mol	Joback Method
hfus	17.99	kJ/mol	Joback Method
hvap	64.90	kJ/mol	Joback Method
log10ws	-4.25		Crippen Method
logp	3.696		Crippen Method
mcvol	197.760	ml/mol	McGowan Method
pc	2135.43	kPa	Joback Method
rinpol	1645.90		NIST Webbook
rinpol	1645.90		NIST Webbook
tb	658.83	K	Joback Method
tc	866.81	K	Joback Method
tf	380.69	K	Joback Method
vc	0.733	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	575.21	J/mol×K	658.83	Joback Method
cpg	594.89	J/mol×K	693.49	Joback Method
cpg	613.57	J/mol×K	728.16	Joback Method
cpg	631.35	J/mol×K	762.82	Joback Method
cpg	648.34	J/mol×K	797.48	Joback Method
cpg	664.64	J/mol×K	832.14	Joback Method
cpg	680.34	J/mol×K	866.81	Joback Method

Sources

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=C79580011&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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