Spiro[8,8-dimethyl-1,2,3,4,5,6,7,8-octahydronapht

Inchi: InChI=1S/C17H26O/c1-16(2)9-5-6-13-8-11-17(12-14(13)16)10-4-3-7-15(17)18/h3-12H2,1
InchiKey: POCWDQYCFAMVQT-UHFFFAOYSA-N
Formula: C17H26O
SMILES: CC1(C)CCCC2=C1CC1(CCCCC1=O)CC2
Mol. weight [g/mol]: 246.39

Physical Properties

Property code	Value	Unit	Source
gf	86.75	kJ/mol	Joback Method
hf	-264.81	kJ/mol	Joback Method
hfus	7.88	kJ/mol	Joback Method
hvap	58.08	kJ/mol	Joback Method
log10ws	-5.27		Crippen Method
logp	4.807		Crippen Method
mcvol	215.080	ml/mol	McGowan Method
pc	2171.40	kPa	Joback Method
rinpol	1929.40		NIST Webbook
rinpol	1943.70		NIST Webbook
ripol	2427.60		NIST Webbook
ripol	2447.60		NIST Webbook
ripol	2427.60		NIST Webbook
tb	716.29	K	Joback Method
tc	976.75	K	Joback Method
tf	460.11	K	Joback Method
vc	0.800	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	658.76	J/mol×K	716.29	Joback Method
cpg	683.80	J/mol×K	759.70	Joback Method
cpg	707.91	J/mol×K	803.11	Joback Method
cpg	731.47	J/mol×K	846.52	Joback Method
cpg	754.86	J/mol×K	889.93	Joback Method

cpg	778.47	J/mol×K	933.34	Joback Method
cpg	802.67	J/mol×K	976.75	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R299073&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