Bicyclononyl

Inchi: InChI=1S/C18H34/c1-2-6-10-14-17(13-9-5-1)18-15-11-7-3-4-8-12-16-18/h17-18H,1-16H2
InchiKey: UVCMYJYTEVWUCV-UHFFFAOYSA-N
Formula: C18H34
SMILES: C1CCCCC(C2CCCCCCCC2)CCC1
Mol. weight [g/mol]: 250.46

Physical Properties

Property code	Value	Unit	Source
gf	76.98	kJ/mol	Joback Method
hf	-343.17	kJ/mol	Joback Method
hfus	13.45	kJ/mol	Joback Method
hvap	57.55	kJ/mol	Joback Method
log10ws	-6.66		Crippen Method
logp	6.488		Crippen Method
mcvol	242.760	ml/mol	McGowan Method
pc	1756.54	kPa	Joback Method
rinpol	2021.00		NIST Webbook
tb	675.96	K	Joback Method
tc	928.59	K	Joback Method
tf	286.26	K	Joback Method
vc	0.862	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	739.05	J/mol×K	675.96	Joback Method
cpg	772.44	J/mol×K	718.06	Joback Method
cpg	803.19	J/mol×K	760.17	Joback Method
cpg	831.32	J/mol×K	802.27	Joback Method
cpg	856.83	J/mol×K	844.38	Joback Method
cpg	879.75	J/mol×K	886.48	Joback Method
cpg	900.10	J/mol×K	928.59	Joback Method
dvisc	0.0273521	Pa×s	286.26	Joback Method
dvisc	0.0027890	Pa×s	351.21	Joback Method

dvisc	0.0005800	Pa×s	416.16	Joback Method
dvisc	0.0001843	Pa×s	481.11	Joback Method
dvisc	0.0000769	Pa×s	546.06	Joback Method
dvisc	0.0000387	Pa×s	611.01	Joback Method
dvisc	0.0000222	Pa×s	675.96	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R136462&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
dvisc:	Dynamic viscosity
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

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