cis-Bicyclo[3.1.0]hexane

Inchi: InChI=1S/C6H10/c1-2-5-4-6(5)3-1/h5-6H,1-4H2/t5-,6+
InchiKey: JAPMJSVZDUYFKL-OLQVQODUSA-N
Formula: C6H10
SMILES: C1CC2CC2C1
Mol. weight [g/mol]: 82.14
CAS: 285-58-5

Physical Properties

Property code	Value	Unit	Source
gf	121.14	kJ/mol	Joback Method
hf	-21.57	kJ/mol	Joback Method
hfus	7.57	kJ/mol	Joback Method
hvap	28.78	kJ/mol	Joback Method
log10ws	-1.64		Crippen Method
logp	1.806		Crippen Method
mcvol	73.680	ml/mol	McGowan Method
pc	4249.61	kPa	Joback Method
rinpol	678.00		NIST Webbook
rinpol	678.00		NIST Webbook
tb	350.16	K	Joback Method
tc	545.42	K	Joback Method
tf	193.26	K	Joback Method
vc	0.285	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	123.56	J/mol×K	350.16	Joback Method
cpg	137.73	J/mol×K	382.70	Joback Method
cpg	150.96	J/mol×K	415.25	Joback Method
cpg	163.29	J/mol×K	447.79	Joback Method
cpg	174.79	J/mol×K	480.33	Joback Method
cpg	185.50	J/mol×K	512.88	Joback Method
cpg	195.48	J/mol×K	545.42	Joback Method

dvisc	0.0002505	Pa×s	193.26	Joback Method
dvisc	0.0002758	Pa×s	219.41	Joback Method
dvisc	0.0002976	Pa×s	245.56	Joback Method
dvisc	0.0003163	Pa×s	271.71	Joback Method
dvisc	0.0003327	Pa×s	297.86	Joback Method
dvisc	0.0003471	Pa×s	324.01	Joback Method
dvisc	0.0003599	Pa×s	350.16	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.46227e+01
Coeff. B	-3.49263e+03
Coeff. C	-9.09100e+00
Temperature range (K), min.	252.73
Temperature range (K), max.	384.19

Sources

The Yaws Handbook of Vapor Pressure: https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R294845&Units=SI

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
pvap:	Vapor pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume