cis-Bicyclo[6.4.0]dodecane

Inchi: InChI=1S/C12H22/c1-2-4-8-12-10-6-5-9-11(12)7-3-1/h11-12H,1-10H2
InchiKey: WYMOYAZDQRQGBK-UHFFFAOYSA-N
Formula: C12H22
SMILES: C1CCCC2CCCCC2CC1
Mol. weight [g/mol]: 166.30

Physical Properties

Property code	Value	Unit	Source
gf	99.06	kJ/mol	Joback Method
hf	-182.37	kJ/mol	Joback Method
hfus	10.51	kJ/mol	Joback Method
hvap	43.16	kJ/mol	Joback Method
log10ws	-4.15		Crippen Method
logp	4.147		Crippen Method
mcvol	158.220	ml/mol	McGowan Method
pc	2603.08	kPa	Joback Method
rinpol	1299.00		NIST Webbook
rinpol	1299.00		NIST Webbook
tb	513.06	K	Joback Method
tc	745.11	K	Joback Method
tf	239.76	K	Joback Method
vc	0.574	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	385.05	J/mol×K	513.06	Joback Method
cpg	411.12	J/mol×K	551.73	Joback Method
cpg	435.56	J/mol×K	590.41	Joback Method
cpg	458.45	J/mol×K	629.08	Joback Method
cpg	479.81	J/mol×K	667.76	Joback Method
cpg	499.72	J/mol×K	706.43	Joback Method
cpg	518.21	J/mol×K	745.11	Joback Method
dvisc	0.0108669	Pa×s	239.76	Joback Method

dvisc	0.0035294	Pa×s	285.31	Joback Method
dvisc	0.0015623	Pa×s	330.86	Joback Method
dvisc	0.0008424	Pa×s	376.41	Joback Method
dvisc	0.0005190	Pa×s	421.96	Joback Method
dvisc	0.0003514	Pa×s	467.51	Joback Method
dvisc	0.0002550	Pa×s	513.06	Joback Method

Sources

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=R140555&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume