

cis-Bicyclo[5.2.0]nonane

Inchi:	InChI=1S/C9H16/c1-2-4-8-6-7-9(8)5-3-1/h8-9H,1-7H2/t8-,9+
InchiKey:	TWONWILUDBHKQU-DTORHVGOSA-N
Formula:	C9H16
SMILES:	C1CCC2CCC2CC1
Mol. weight [g/mol]:	124.22

Physical Properties

Property code	Value	Unit	Source
gf	110.10	kJ/mol	Joback Method
hf	-101.97	kJ/mol	Joback Method
hfus	9.04	kJ/mol	Joback Method
hvap	35.97	kJ/mol	Joback Method
log10ws	-2.90		Crippen Method
logp	2.977		Crippen Method
mcvol	115.950	ml/mol	McGowan Method
pc	3276.53	kPa	Joback Method
rinpol	990.00		NIST Webbook
tb	431.61	K	Joback Method
tc	647.88	K	Joback Method
tf	216.51	K	Joback Method
vc	0.429	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	240.94	J/mol×K	431.61	Joback Method
cpg	331.12	J/mol×K	611.84	Joback Method
cpg	315.35	J/mol×K	575.79	Joback Method
cpg	298.50	J/mol×K	539.75	Joback Method
cpg	280.52	J/mol×K	503.70	Joback Method
cpg	261.35	J/mol×K	467.66	Joback Method
cpg	345.88	J/mol×K	647.88	Joback Method
dvisc	0.0004581	Pa×s	431.61	Joback Method
dvisc	0.0005380	Pa×s	395.76	Joback Method

dvisc	0.0006525	Pa×s	359.91	Joback Method
dvisc	0.0008258	Pa×s	324.06	Joback Method
dvisc	0.0011082	Pa×s	288.21	Joback Method
dvisc	0.0016168	Pa×s	252.36	Joback Method
dvisc	0.0026731	Pa×s	216.51	Joback Method

Sources

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=R140515&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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