

# cis-Bicyclo[10.1.0]tridecane

Inchi:	InChI=1S/C13H24/c1-2-4-6-8-10-13-11-12(13)9-7-5-3-1/h12-13H,1-11H2/t12-,13+
InchiKey:	AVLHASKUBJLLTQD-BETUJISGSA-N
Formula:	C13H24
SMILES:	C1CCCCC2CC2CCCC1
Mol. weight [g/mol]:	180.33

## Physical Properties

Property code	Value	Unit	Source
gf	95.38	kJ/mol	Joback Method
hf	-209.17	kJ/mol	Joback Method
hfus	11.00	kJ/mol	Joback Method
hvap	45.56	kJ/mol	Joback Method
log10ws	-4.57		Crippen Method
logp	4.537		Crippen Method
mcvol	172.310	ml/mol	McGowan Method
pc	2424.27	kPa	Joback Method
rinpol	1404.00		NIST Webbook
tb	540.21	K	Joback Method
tc	776.57	K	Joback Method
tf	247.51	K	Joback Method
vc	0.622	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	438.45	J/molxK	540.21	Joback Method
cpg	559.90	J/molxK	737.18	Joback Method
cpg	538.94	J/molxK	697.79	Joback Method
cpg	516.37	J/molxK	658.39	Joback Method
cpg	492.12	J/molxK	619.00	Joback Method
cpg	466.17	J/molxK	579.60	Joback Method
cpg	579.29	J/molxK	776.57	Joback Method
dvisc	0.0001864	Paxs	540.21	Joback Method
dvisc	0.0002690	Paxs	491.43	Joback Method

dvisc	0.0004210	Paxs	442.64	Joback Method
dvisc	0.0007360	Paxs	393.86	Joback Method
dvisc	0.0015069	Paxs	345.08	Joback Method
dvisc	0.0039063	Paxs	296.29	Joback Method
dvisc	0.0147410	Paxs	247.51	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R140500&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R140500&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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