

trans-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-/m1/s1
InchiKey:	AVLHSKUBJLLTQD-CHWSQXEVSA-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
mvol	172.310	ml/mol	McGowan Method
pc	2424.27	kPa	Joback Method
rinpol	1382.00		NIST Webbook
tb	540.21	K	Joback Method
tc	776.57	K	Joback Method
tf	247.51	K	Joback Method
vc	0.622	m ³ /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

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=R140575&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

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