c,t-cycloundeca-1,5-diene

Inchi: InChI=1S/C11H18/c1-2-4-6-8-10-11-9-7-5-3-1/h1-2,7,9H,3-6,8,10-11H2/b2-1-,9-7+
InchiKey: PAJDCTBXRIKSRB-UYIJSCIWSA-N
Formula: C11H18
SMILES: C1=CCCCCCC=CCC1
Mol. weight [g/mol]: 150.26

Physical Properties

Property code	Value	Unit	Source
gf	73.32	kJ/mol	Joback Method
hf	-110.95	kJ/mol	Joback Method
hfus	6.95	kJ/mol	Joback Method
hvap	42.26	kJ/mol	Joback Method
log10ws	-4.03		Crippen Method
logp	3.843		Crippen Method
mcvol	146.390	ml/mol	McGowan Method
pc	2956.90	kPa	Joback Method
rinpol	1196.00		NIST Webbook
rinpol	1196.00		NIST Webbook
tb	494.97	K	Joback Method
tc	735.87	K	Joback Method
tf	209.27	K	Joback Method
vc	0.517	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	315.65	J/mol×K	494.97	Joback Method
cpg	419.03	J/mol×K	695.72	Joback Method
cpg	401.08	J/mol×K	655.57	Joback Method
cpg	381.78	J/mol×K	615.42	Joback Method
cpg	361.11	J/mol×K	575.27	Joback Method
cpg	339.07	J/mol×K	535.12	Joback Method
cpg	435.62	J/mol×K	735.87	Joback Method
dvisc	0.0000875	Pa×s	494.97	Joback Method

dvisc	0.0001528	Pa×s	447.35	Joback Method
dvisc	0.0003049	Pa×s	399.74	Joback Method
dvisc	0.0007331	Pa×s	352.12	Joback Method
dvisc	0.0023193	Pa×s	304.50	Joback Method
dvisc	0.0112460	Pa×s	256.89	Joback Method
dvisc	0.1118533	Pa×s	209.27	Joback Method

Sources

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=R389230&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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