

t,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-ATTBXNPTSA-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	1177.60		NIST Webbook
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tb	494.97	K	Joback Method
tc	735.87	K	Joback Method
tf	209.27	K	Joback Method
vc	0.517	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	315.65	J/mol×K	494.97	Joback Method
cpg	339.07	J/mol×K	535.12	Joback Method
cpg	361.11	J/mol×K	575.27	Joback Method
cpg	381.78	J/mol×K	615.42	Joback Method
cpg	401.08	J/mol×K	655.57	Joback Method
cpg	419.03	J/mol×K	695.72	Joback Method
cpg	435.62	J/mol×K	735.87	Joback Method
dvisc	0.1118533	Paxs	209.27	Joback Method

dvisc	0.0112460	Paxs	256.89	Joback Method
dvisc	0.0023193	Paxs	304.50	Joback Method
dvisc	0.0007331	Paxs	352.12	Joback Method
dvisc	0.0003049	Paxs	399.74	Joback Method
dvisc	0.0001528	Paxs	447.35	Joback Method
dvisc	0.0000875	Paxs	494.97	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=R389245&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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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