(Z,Z)-1,6-Cyclodecadiene, 1-methyl

Inchi: InChI=1S/C11H18/c1-11-9-7-5-3-2-4-6-8-10-11/h2-3,10H,4-9H2,1H3/b3-2-,11-10-
InchiKey: CZDVGHJZLVSCHY-AWXIYCKCSA-N
Formula: C11H18
SMILES: CC1=CCCCC=CCCC1
Mol. weight [g/mol]: 150.26

Physical Properties

Property code	Value	Unit	Source
gf	75.79	kJ/mol	Joback Method
hf	-116.26	kJ/mol	Joback Method
hfus	8.66	kJ/mol	Joback Method
hvap	42.75	kJ/mol	Joback Method
log10ws	-4.03		Crippen Method
logp	3.843		Crippen Method
mcvol	146.390	ml/mol	McGowan Method
pc	2832.35	kPa	Joback Method
rinpol	1176.00		NIST Webbook
tb	495.68	K	Joback Method
tc	728.65	K	Joback Method
tf	225.31	K	Joback Method
vc	0.525	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	316.45	J/mol×K	495.68	Joback Method
cpg	338.14	J/mol×K	534.51	Joback Method
cpg	358.63	J/mol×K	573.34	Joback Method
cpg	377.92	J/mol×K	612.16	Joback Method
cpg	396.02	J/mol×K	650.99	Joback Method
cpg	412.95	J/mol×K	689.82	Joback Method
cpg	428.70	J/mol×K	728.65	Joback Method
dvisc	0.0285999	Pa×s	225.31	Joback Method
dvisc	0.0051075	Pa×s	270.37	Joback Method

dvisc	0.0014921	Pa×s	315.43	Joback Method
dvisc	0.0005929	Pa×s	360.50	Joback Method
dvisc	0.0002892	Pa×s	405.56	Joback Method
dvisc	0.0001629	Pa×s	450.62	Joback Method
dvisc	0.0001018	Pa×s	495.68	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=R3059&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