

trans-Cycloundecene, 1-methyl-

Inchi:	InChI=1S/C12H22/c1-12-10-8-6-4-2-3-5-7-9-11-12/h10H,2-9,11H2,1H3/b12-10+
InchiKey:	IAGTWOIELUZWSL-ZRDIBKRKSA-N
Formula:	C12H22
SMILES:	CC1=CCCCCCCCC1
Mol. weight [g/mol]:	166.30

Physical Properties

Property code	Value	Unit	Source
gf	42.15	kJ/mol	Joback Method
hf	-200.84	kJ/mol	Joback Method
hfus	7.93	kJ/mol	Joback Method
hvap	44.86	kJ/mol	Joback Method
log10ws	-4.59		Crippen Method
logp	4.457		Crippen Method
mcvol	164.780	ml/mol	McGowan Method
pc	2535.37	kPa	Joback Method
rinsol	1292.00		NIST Webbook
tb	523.67	K	Joback Method
tc	758.79	K	Joback Method
tf	232.30	K	Joback Method
vc	0.588	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	383.57	J/molxK	523.67	Joback Method
cpg	494.08	J/molxK	719.60	Joback Method
cpg	474.77	J/molxK	680.41	Joback Method
cpg	454.07	J/molxK	641.23	Joback Method
cpg	431.97	J/molxK	602.04	Joback Method
cpg	408.47	J/molxK	562.86	Joback Method
cpg	511.98	J/molxK	758.79	Joback Method
dvisc	0.0000704	Paxs	523.67	Joback Method
dvisc	0.0001199	Paxs	475.11	Joback Method

dvisc	0.0002308	Paxs	426.55	Joback Method
dvisc	0.0005256	Paxs	377.99	Joback Method
dvisc	0.0015255	Paxs	329.42	Joback Method
dvisc	0.0064003	Paxs	280.86	Joback Method
dvisc	0.0489058	Paxs	232.30	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=R293362&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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