

Cyclononene, 1-methyl

Inchi:	InChI=1S/C10H18/c1-10-8-6-4-2-3-5-7-9-10/h8H,2-7,9H2,1H3/b10-8-
InchiKey:	ZXMQTPUCEFQPS-NTMALXAHSA-N
Formula:	C10H18
SMILES:	CC1=CCCCCCC1
Mol. weight [g/mol]:	138.25

Physical Properties

Property code	Value	Unit	Source
gf	49.51	kJ/mol	Joback Method
hf	-147.24	kJ/mol	Joback Method
hfus	6.95	kJ/mol	Joback Method
hvap	40.06	kJ/mol	Joback Method
log10ws	-3.76		Crippen Method
logp	3.677		Crippen Method
mcvol	136.600	ml/mol	McGowan Method
pc	2940.89	kPa	Joback Method
rinpol	1162.00		NIST Webbook
rinpol	1102.00		NIST Webbook
tb	469.37	K	Joback Method
tc	694.84	K	Joback Method
tf	216.80	K	Joback Method
vc	0.491	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	285.91	J/mol×K	469.37	Joback Method
cpg	306.80	J/mol×K	506.95	Joback Method
cpg	326.61	J/mol×K	544.53	Joback Method
cpg	345.35	J/mol×K	582.11	Joback Method
cpg	363.02	J/mol×K	619.69	Joback Method
cpg	379.64	J/mol×K	657.26	Joback Method
cpg	395.23	J/mol×K	694.84	Joback Method
dvisc	0.0272492	Paxs	216.80	Joback Method

dvisc	0.0055692	Paxs	258.89	Joback Method
dvisc	0.0017746	Paxs	300.99	Joback Method
dvisc	0.0007487	Paxs	343.09	Joback Method
dvisc	0.0003814	Paxs	385.18	Joback Method
dvisc	0.0002220	Paxs	427.27	Joback Method
dvisc	0.0001423	Paxs	469.37	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=R132975&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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