

Cyclononene

Inchi:	InChI=1S/C9H16/c1-2-4-6-8-9-7-5-3-1/h1-2H,3-9H2
InchiKey:	BESIOWGPXPAVOS-UHFFFAOYSA-N
Formula:	C9H16
SMILES:	C1=CCCCCCCC1
Mol. weight [g/mol]:	124.22
CAS:	3618-11-9

Physical Properties

Property code	Value	Unit	Source
gf	50.72	kJ/mol	Joback Method
hf	-115.13	kJ/mol	Joback Method
hfus	4.75	kJ/mol	Joback Method
hvap	37.17	kJ/mol	Joback Method
log10ws	-3.34		Crippen Method
logp	3.287		Crippen Method
mcvol	122.510	ml/mol	McGowan Method
pc	3329.68	kPa	Joback Method
rinpol	997.00		NIST Webbook
ripol	1059.00		NIST Webbook
ripol	1058.00		NIST Webbook
tb	441.51	K	Joback Method
tc	669.04	K	Joback Method
tf	193.01	K	Joback Method
vc	0.435	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	239.29	J/molxK	441.51	Joback Method
cpg	330.62	J/molxK	631.12	Joback Method
cpg	314.48	J/molxK	593.20	Joback Method
cpg	297.30	J/molxK	555.28	Joback Method
cpg	279.05	J/molxK	517.35	Joback Method
cpg	259.72	J/molxK	479.43	Joback Method

cpg	345.72	J/molxK	669.04	Joback Method
dvisc	0.0001713	Paxs	441.51	Joback Method
dvisc	0.0002786	Paxs	400.09	Joback Method
dvisc	0.0005070	Paxs	358.68	Joback Method
dvisc	0.0010786	Paxs	317.26	Joback Method
dvisc	0.0028786	Paxs	275.84	Joback Method
dvisc	0.0108677	Paxs	234.43	Joback Method
dvisc	0.0725595	Paxs	193.01	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=C3618119&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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