

Cyclononane, methyl

Inchi: InChI=1S/C10H20/c1-10-8-6-4-2-3-5-7-9-10/h10H,2-9H2,1H3
InchiKey: LFYYWGDFLAUSLV-UHFFFAOYSA-N
Formula: C10H20
SMILES: CC1CCCCCCCC1
Mol. weight [g/mol]: 140.27

Physical Properties

Property code	Value	Unit	Source
gf	21.47	kJ/mol	Joback Method
hf	-213.89	kJ/mol	Joback Method
hfus	7.19	kJ/mol	Joback Method
hvap	38.80	kJ/mol	Joback Method
log10ws	-3.66		Crippen Method
logp	3.757		Crippen Method
mcvol	140.900	ml/mol	McGowan Method
pc	2775.92	kPa	Joback Method
rinpol	1106.00		NIST Webbook
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tb	460.56	K	Joback Method
tc	682.03	K	Joback Method
tf	199.28	K	Joback Method
vc	0.504	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	299.80	J/mol×K	460.56	Joback Method
cpg	322.82	J/mol×K	497.47	Joback Method
cpg	344.69	J/mol×K	534.38	Joback Method
cpg	365.42	J/mol×K	571.29	Joback Method
cpg	385.03	J/mol×K	608.21	Joback Method
cpg	403.51	J/mol×K	645.12	Joback Method
cpg	420.88	J/mol×K	682.03	Joback Method
dvisc	0.0501918	Paxs	199.28	Joback Method

dvisc	0.0081766	Paxs	242.83	Joback Method
dvisc	0.0023130	Paxs	286.37	Joback Method
dvisc	0.0009132	Paxs	329.92	Joback Method
dvisc	0.0004478	Paxs	373.47	Joback Method
dvisc	0.0002548	Paxs	417.01	Joback Method
dvisc	0.0001613	Paxs	460.56	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R133374&Units=SI
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

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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