

3-(2-Propenyl)cyclopentene

Other names:	Cyclopentene,3-(2-propenyl)- 3-[2-Propenyl]-1-cyclopentene 3-Allyl-1-cyclopentene 3-Allylcyclopentene-1
Inchi:	InChI=1S/C8H12/c1-2-5-8-6-3-4-7-8/h2-3,6,8H,1,4-5,7H2
InchiKey:	VWGHETFSGHHDRB-UHFFFAOYSA-N
Formula:	C8H12
SMILES:	C=CCC1C=CCC1
Mol. weight [g/mol]:	108.18
CAS:	14564-97-7

Physical Properties

Property code	Value	Unit	Source
gf	170.83	kJ/mol	Joback Method
hf	35.24	kJ/mol	Joback Method
hfus	10.35	kJ/mol	Joback Method
hvap	33.28	kJ/mol	Joback Method
ie	8.89 ± 0.02	eV	NIST Webbook
log10ws	-2.53		Crippen Method
logp	2.529		Crippen Method
mcvol	104.120	ml/mol	McGowan Method
pc	3348.98	kPa	Joback Method
rinpol	805.00		NIST Webbook
rinpol	802.00		NIST Webbook
rinpol	800.00		NIST Webbook
rinpol	797.00		NIST Webbook
rinpol	805.00		NIST Webbook
rinpol	801.20		NIST Webbook
rinpol	800.00		NIST Webbook
rinpol	797.00		NIST Webbook
ripol	940.90		NIST Webbook
ripol	934.80		NIST Webbook
ripol	926.60		NIST Webbook
ripol	985.00		NIST Webbook
ripol	989.00		NIST Webbook
ripol	992.00		NIST Webbook
ripol	970.00		NIST Webbook

ripol	978.00		NIST Webbook
ripol	985.00		NIST Webbook
ripol	940.90		NIST Webbook
ripol	926.60		NIST Webbook
ripol	934.80		NIST Webbook
tb	393.56	K	Joback Method
tc	592.64	K	Joback Method
tf	189.82	K	Joback Method
vc	0.392	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	186.26	J/mol×K	393.56	Joback Method
cpg	251.98	J/mol×K	559.46	Joback Method
cpg	240.31	J/mol×K	526.28	Joback Method
cpg	227.93	J/mol×K	493.10	Joback Method
cpg	214.82	J/mol×K	459.92	Joback Method
cpg	200.94	J/mol×K	426.74	Joback Method
cpg	262.98	J/mol×K	592.64	Joback Method
dvisc	0.0002803	Pa×s	393.56	Joback Method
dvisc	0.0003407	Pa×s	359.60	Joback Method
dvisc	0.0004314	Pa×s	325.65	Joback Method
dvisc	0.0005771	Pa×s	291.69	Joback Method
dvisc	0.0008334	Pa×s	257.73	Joback Method
dvisc	0.0013456	Pa×s	223.78	Joback Method
dvisc	0.0025787	Pa×s	189.82	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=C14564977&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
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rnpol:	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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