3-(2-Propylidene)-1-cyclopentene

Inchi: InChI=1S/C8H12/c1-7(2)8-5-3-4-6-8/h3,5H,4,6H2,1-2H3
InchiKey: BOJHICPAMVJRDP-UHFFFAOYSA-N
Formula: C8H12
SMILES: CC(C)=C1C=CCC1
Mol. weight [g/mol]: 108.18
CAS: 10514-79-1

Physical Properties

Property code	Value	Unit	Source
gf	127.61	kJ/mol	Joback Method
hf	49.40	kJ/mol	NIST Webbook
hfus	9.57	kJ/mol	Joback Method
hvap	35.13	kJ/mol	Joback Method
log10ws	-2.77		Crippen Method
logp	2.673		Crippen Method
mcvol	104.120	ml/mol	McGowan Method
pc	3448.03	kPa	Joback Method
tb	408.07	K	Joback Method
tc	615.29	K	Joback Method
tf	192.22	K	Joback Method
vc	0.396	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	188.93	J/mol×K	408.07	Joback Method
cpg	202.91	J/mol×K	442.61	Joback Method
cpg	216.07	J/mol×K	477.14	Joback Method
cpg	228.46	J/mol×K	511.68	Joback Method
cpg	240.11	J/mol×K	546.21	Joback Method
cpg	251.06	J/mol×K	580.75	Joback Method
cpg	261.36	J/mol×K	615.29	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C10514791&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume