1,1-Difluoro-2-vinylcyclopropane

Inchi: InChI=1S/C5H6F2/c1-2-4-3-5(4,6)7/h2,4H,1,3H2
InchiKey: QCLGRUGHFNFAFX-UHFFFAOYSA-N
Formula: C5H6F2
SMILES: C=CC1CC1(F)F
Mol. weight [g/mol]: 104.10
CAS: 694-34-8

Physical Properties

Property code	Value	Unit	Source
gf	-263.01	kJ/mol	Joback Method
hf	-345.62	kJ/mol	Joback Method
hfus	6.49	kJ/mol	Joback Method
hvap	22.87	kJ/mol	Joback Method
log10ws	-1.74		Crippen Method
logp	1.828		Crippen Method
mcvol	69.690	ml/mol	McGowan Method
pc	3886.79	kPa	Joback Method
tb	311.33	K	Joback Method
tc	479.74	K	Joback Method
tf	183.13	K	Joback Method
vc	0.286	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	109.44	J/mol×K	311.33	Joback Method
cpg	120.35	J/mol×K	339.40	Joback Method
cpg	130.41	J/mol×K	367.47	Joback Method
cpg	139.66	J/mol×K	395.54	Joback Method
cpg	148.16	J/mol×K	423.61	Joback Method
cpg	155.98	J/mol×K	451.67	Joback Method
cpg	163.18	J/mol×K	479.74	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C694348&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