1,1-Difluoro-2-(trans-1-propenyl)cyclopropane

Inchi: InChI=1S/C6H8F2/c1-2-3-5-4-6(5,7)8/h2-3,5H,4H2,1H3/b3-2+
InchiKey: BISFUORUYZZWBG-NSCUHMNNSA-N
Formula: C6H8F2
SMILES: CC=CC1CC1(F)F
Mol. weight [g/mol]: 118.12
CAS: 79517-52-5

Physical Properties

Property code	Value	Unit	Source
gf	-262.21	kJ/mol	Joback Method
hf	-374.47	kJ/mol	Joback Method
hfus	10.57	kJ/mol	Joback Method
hvap	25.73	kJ/mol	Joback Method
log10ws	-2.15		Crippen Method
logp	2.218		Crippen Method
mcvol	83.780	ml/mol	McGowan Method
pc	3501.28	kPa	Joback Method
tb	341.69	K	Joback Method
tc	516.48	K	Joback Method
tf	191.08	K	Joback Method
vc	0.342	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	143.45	J/mol×K	341.69	Joback Method
cpg	155.80	J/mol×K	370.82	Joback Method
cpg	167.18	J/mol×K	399.95	Joback Method
cpg	177.66	J/mol×K	429.09	Joback Method
cpg	187.30	J/mol×K	458.22	Joback Method
cpg	196.19	J/mol×K	487.35	Joback Method
cpg	204.40	J/mol×K	516.48	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=C79517525&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
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