2-methyl-2-propylthiazolidine

Inchi: InChI=1S/C7H15NS/c1-3-4-7(2)8-5-6-9-7/h8H,3-6H2,1-2H3
InchiKey: UXWRFNZXJOUMPQ-UHFFFAOYSA-N
Formula: C7H15NS
SMILES: CCCC1(C)NCCS1
Mol. weight [g/mol]: 145.27

Physical Properties

Property code	Value	Unit	Source
gf	166.69	kJ/mol	Joback Method
hf	-29.02	kJ/mol	Joback Method
hfus	14.77	kJ/mol	Joback Method
hvap	42.85	kJ/mol	Joback Method
log10ws	-2.33		Crippen Method
logp	1.839		Crippen Method
mcvol	124.960	ml/mol	McGowan Method
pc	3690.97	kPa	Joback Method
ripol	1566.00		NIST Webbook
ripol	1566.00		NIST Webbook
tb	471.46	K	Joback Method
tc	699.11	K	Joback Method
tf	391.93	K	Joback Method
vc	0.450	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	263.97	J/mol×K	471.46	Joback Method
cpg	279.73	J/mol×K	509.40	Joback Method
cpg	294.37	J/mol×K	547.34	Joback Method
cpg	308.03	J/mol×K	585.28	Joback Method
cpg	320.84	J/mol×K	623.22	Joback Method
cpg	332.91	J/mol×K	661.17	Joback Method
cpg	344.37	J/mol×K	699.11	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R298956&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume