Thiazolidine, 2-propyl-

Other names:	2-n-Propylthiazolidine
	2-Propyl-1,3-thiazolidine
	2-Propylthiazolidine
Inchi:	InChI=1S/C6H13NS/c1-2-3-6-7-4-5-8-6/h6-7H,2-5H2,1H3
InchiKey:	UDJJSTNTIKWCCW-UHFFFAOYSA-N
Formula:	C6H13NS
SMILES:	CCCC1NCCS1
Mol. weight [g/mol]:	131.24
CAS:	24050-10-0

Physical Properties

Property code	Value	Unit	Source
gf	163.76	kJ/mol	Joback Method
hf	-23.62	kJ/mol	Joback Method
hfus	18.48	kJ/mol	Joback Method
hvap	41.78	kJ/mol	Joback Method
log10ws	-1.91		Crippen Method
logp	1.449		Crippen Method
mcvol	110.870	ml/mol	McGowan Method
pc	3930.78	kPa	Joback Method
rinpol	1135.00		NIST Webbook
rinpol	1081.00		NIST Webbook
rinpol	1086.00		NIST Webbook
rinpol	1136.00		NIST Webbook
ripol	1615.00		NIST Webbook
ripol	1615.00		NIST Webbook
ripol	1610.00		NIST Webbook
tb	448.34	K	Joback Method
tc	669.43	K	Joback Method
tf	356.76	K	Joback Method
vc	0.396	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	221.26	J/mol×K	448.34	Joback Method
cpg	235.77	J/mol×K	485.19	Joback Method
cpg	249.52	J/mol×K	522.04	Joback Method
cpg	262.53	J/mol×K	558.88	Joback Method
cpg	274.84	J/mol×K	595.73	Joback Method
cpg	286.46	J/mol×K	632.58	Joback Method
cpg	297.42	J/mol×K	669.43	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C24050100&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
rinpol: Non-polar retention indices
ripol: Polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume