Thiazolidine, 2-methyl-

Other names:	2-Methylthiazolidine
	Methyl-2 thiazolidine
	2-methyl-2-thiazolidine
	2-methyl-1,3-thiazolidine
Inchi:	InChI=1S/C4H9NS/c1-4-5-2-3-6-4/h4-5H,2-3H2,1H3
InchiKey:	DQMLFUMEBNHPPB-UHFFFAOYSA-N
Formula:	C4H9NS
SMILES:	CC1NCCS1
Mol. weight [g/mol]:	103.19
CAS:	24050-16-6

Physical Properties

Property code	Value	Unit	Source
gf	146.92	kJ/mol	Joback Method
hf	17.66	kJ/mol	Joback Method
hfus	13.30	kJ/mol	Joback Method
hvap	37.33	kJ/mol	Joback Method
log10ws	-1.07		Crippen Method
logp	0.669		Crippen Method
mcvol	82.690	ml/mol	McGowan Method
pc	5080.25	kPa	Joback Method
rinpol	889.00		NIST Webbook
rinpol	889.00		NIST Webbook
rinpol	893.00		NIST Webbook
rinpol	893.00		NIST Webbook
rinpol	932.00		NIST Webbook
rinpol	900.00		NIST Webbook
rinpol	934.00		NIST Webbook
rinpol	932.00		NIST Webbook
rinpol	890.00		NIST Webbook
rinpol	890.00		NIST Webbook
ripol	1418.00		NIST Webbook
ripol	1422.00		NIST Webbook
ripol	1415.00		NIST Webbook
ripol	1415.00		NIST Webbook
ripol	1415.00		NIST Webbook
ripol	1434.00		NIST Webbook

ripol	1418.00		NIST Webbook
ripol	1415.00		NIST Webbook
ripol	1422.00		NIST Webbook
ripol	1415.00		NIST Webbook
ripol	1418.00		NIST Webbook
tb	402.58	K	Joback Method
tc	629.71	K	Joback Method
tf	334.22	K	Joback Method
vc	0.283	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	143.57	J/mol×K	402.58	Joback Method
cpg	155.25	J/mol×K	440.43	Joback Method
cpg	166.34	J/mol×K	478.29	Joback Method
cpg	176.83	J/mol×K	516.14	Joback Method
cpg	186.75	J/mol×K	554.00	Joback Method
cpg	196.12	J/mol×K	591.85	Joback Method
cpg	204.96	J/mol×K	629.71	Joback Method

Sources

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
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=C24050166&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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