

Thiazolidine, 2-ethyl-

Other names:	2-Ethylthiazolidine
Inchi:	InChI=1S/C5H11NS/c1-2-5-6-3-4-7-5/h5-6H,2-4H2,1H3
InchiKey:	SZLVYXIKAAFTFY-UHFFFAOYSA-N
Formula:	C5H11NS
SMILES:	CCC1NCCS1
Mol. weight [g/mol]:	117.21
CAS:	24050-09-7

Physical Properties

Property code	Value	Unit	Source
gf	155.34	kJ/mol	Joback Method
hf	-2.98	kJ/mol	Joback Method
hfus	15.89	kJ/mol	Joback Method
hvap	39.55	kJ/mol	Joback Method
log10ws	-1.49		Crippen Method
logp	1.059		Crippen Method
mcvol	96.780	ml/mol	McGowan Method
pc	4450.38	kPa	Joback Method
rinpol	1034.00		NIST Webbook
rinpol	1024.00		NIST Webbook
rinpol	991.00		NIST Webbook
rinpol	991.00		NIST Webbook
rinpol	983.00		NIST Webbook
rinpol	983.00		NIST Webbook
rinpol	1024.00		NIST Webbook
ripol	1514.00		NIST Webbook
ripol	1514.00		NIST Webbook
ripol	1513.00		NIST Webbook
ripol	1513.00		NIST Webbook
tb	425.46	K	Joback Method
tc	649.68	K	Joback Method
tf	345.49	K	Joback Method
vc	0.340	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	181.28	J/mol×K	425.46	Joback Method
cpg	194.47	J/mol×K	462.83	Joback Method
cpg	206.97	J/mol×K	500.20	Joback Method
cpg	218.80	J/mol×K	537.57	Joback Method
cpg	229.99	J/mol×K	574.94	Joback Method
cpg	240.56	J/mol×K	612.31	Joback Method
cpg	250.52	J/mol×K	649.68	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C24050097&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

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