

# Thiazolidine, 2-isopropyl-

<b>Other names:</b>	2-Isopropylthiazolidine
<b>Inchi:</b>	InChI=1S/C6H13NS/c1-5(2)6-7-3-4-8-6/h5-7H,3-4H2,1-2H3
<b>InchiKey:</b>	KJSKELRHBZJJIK-UHFFFAOYSA-N
<b>Formula:</b>	C6H13NS
<b>SMILES:</b>	CC(C)C1NCCS1
<b>Mol. weight [g/mol]:</b>	131.24
<b>CAS:</b>	24050-11-1

## Physical Properties

Property code	Value	Unit	Source
gf	161.32	kJ/mol	Joback Method
hf	-28.90	kJ/mol	Joback Method
hfus	14.96	kJ/mol	Joback Method
hvap	41.39	kJ/mol	Joback Method
log10ws	-1.67		Crippen Method
logp	1.305		Crippen Method
mcvol	110.870	ml/mol	McGowan Method
pc	3970.51	kPa	Joback Method
rinpol	1055.00		NIST Webbook
rinpol	1055.00		NIST Webbook
tb	447.90	K	Joback Method
tc	674.47	K	Joback Method
tf	341.76	K	Joback Method
vc	0.390	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	221.36	J/molxK	447.90	Joback Method
cpg	236.33	J/molxK	485.66	Joback Method
cpg	250.49	J/molxK	523.42	Joback Method
cpg	263.87	J/molxK	561.18	Joback Method
cpg	276.49	J/molxK	598.94	Joback Method
cpg	288.38	J/molxK	636.70	Joback Method

## Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C24050111&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C24050111&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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