

# Thiazolidine, 2-isobutyl-

<b>Other names:</b>	2-Isobutylthiazolidine Thiazolidine, 2-(2-methylpropyl)- 2-isobutyulthiazolidine
<b>Inchi:</b>	InChI=1S/C7H15NS/c1-6(2)5-7-8-3-4-9-7/h6-8H,3-5H2,1-2H3
<b>InchiKey:</b>	OLVZVPBWPSBRNF-UHFFFAOYSA-N
<b>Formula:</b>	C7H15NS
<b>SMILES:</b>	CC(C)CC1NCCS1
<b>Mol. weight [g/mol]:</b>	145.27
<b>CAS:</b>	696-70-8

## Physical Properties

Property code	Value	Unit	Source
gf	169.74	kJ/mol	Joback Method
hf	-49.54	kJ/mol	Joback Method
hfus	17.55	kJ/mol	Joback Method
hvap	43.61	kJ/mol	Joback Method
log10ws	-2.09		Crippen Method
logp	1.695		Crippen Method
mcvol	124.960	ml/mol	McGowan Method
pc	3530.46	kPa	Joback Method
rinpol	1146.00		NIST Webbook
tb	470.78	K	Joback Method
tc	693.86	K	Joback Method
tf	353.03	K	Joback Method
vc	0.446	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	263.53	J/molxK	470.78	Joback Method
cpg	279.65	J/molxK	507.96	Joback Method
cpg	294.92	J/molxK	545.14	Joback Method
cpg	309.34	J/molxK	582.32	Joback Method
cpg	322.95	J/molxK	619.50	Joback Method

cpg	335.77	J/mol×K	656.68	Joback Method
cpg	347.84	J/mol×K	693.86	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C696708&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C696708&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>hvac:</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>mccol:</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

Latest version available from:

<https://www.chemeo.com/cid/57-581-4/Thiazolidine-2-isobutyl.pdf>

Generated by Cheméo on 2024-04-23 16:03:24.68146465 +0000 UTC m=+16177453.602041965.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.