

# Methylsulphonamide, N-ethyl-N-3-methylbutyl-

<b>Inchi:</b>	InChI=1S/C8H19NO2S/c1-5-9(12(4,10)11)7-6-8(2)3/h8H,5-7H2,1-4H3
<b>InchiKey:</b>	ZTOKWWWIRNEJPA-UHFFFAOYSA-N
<b>Formula:</b>	C8H19NO2S
<b>SMILES:</b>	CCN(CCC(C)C)S(C)(=O)=O
<b>Mol. weight [g/mol]:</b>	193.31

## Physical Properties

Property code	Value	Unit	Source
gf	-343.72	kJ/mol	Joback Method
hf	-599.55	kJ/mol	Joback Method
hfus	27.35	kJ/mol	Joback Method
hvap	53.69	kJ/mol	Joback Method
log10ws	-1.32		Crippen Method
logp	1.314		Crippen Method
mcvol	161.650	ml/mol	McGowan Method
pc	3002.44	kPa	Joback Method
rinpol	1621.00		NIST Webbook
rinpol	1621.00		NIST Webbook
tb	442.22	K	Joback Method
tc	606.26	K	Joback Method
tf	235.95	K	Joback Method
vc	0.622	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	341.26	J/mol×K	442.22	Joback Method
cpg	356.09	J/mol×K	469.56	Joback Method
cpg	370.35	J/mol×K	496.90	Joback Method
cpg	384.05	J/mol×K	524.24	Joback Method
cpg	397.19	J/mol×K	551.58	Joback Method
cpg	409.79	J/mol×K	578.92	Joback Method
cpg	421.84	J/mol×K	606.26	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U415435&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415435&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>

# 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>rinpola:</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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