

# Methylsulphonamide, N-ethyl-N-butyl-

<b>Inchi:</b>	InChI=1S/C7H17NO2S/c1-4-6-7-8(5-2)11(3,9)10/h4-7H2,1-3H3
<b>InchiKey:</b>	WRRITKOTEHDDMZ-UHFFFAOYSA-N
<b>Formula:</b>	C7H17NO2S
<b>SMILES:</b>	CCCCN(CC)S(C)(=O)=O
<b>Mol. weight [g/mol]:</b>	179.28

## Physical Properties

Property code	Value	Unit	Source
gf	-349.70	kJ/mol	Joback Method
hf	-573.63	kJ/mol	Joback Method
hfus	28.29	kJ/mol	Joback Method
hvap	51.85	kJ/mol	Joback Method
log10ws	-1.15		Crippen Method
logp	1.068		Crippen Method
mcvol	147.560	ml/mol	McGowan Method
pc	3314.37	kPa	Joback Method
rinpol	1503.00		NIST Webbook
rinpol	1503.00		NIST Webbook
tb	419.78	K	Joback Method
tc	581.06	K	Joback Method
tf	239.68	K	Joback Method
vc	0.572	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	298.19	J/mol×K	419.78	Joback Method
cpg	311.70	J/mol×K	446.66	Joback Method
cpg	324.71	J/mol×K	473.54	Joback Method
cpg	337.23	J/mol×K	500.42	Joback Method
cpg	349.27	J/mol×K	527.30	Joback Method
cpg	360.83	J/mol×K	554.18	Joback Method
cpg	371.91	J/mol×K	581.06	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=U415434&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415434&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>hvp:</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>rinp:</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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