

# Methylsulphonamide, N-ethyl-N-heptyl-

<b>Inchi:</b>	InChI=1S/C10H23NO2S/c1-4-6-7-8-9-10-11(5-2)14(3,12)13/h4-10H2,1-3H3
<b>InchiKey:</b>	SPVNZUGCVYGNQ-UHFFFAOYSA-N
<b>Formula:</b>	C10H23NO2S
<b>SMILES:</b>	CCCCCCCN(CC)S(C)(=O)=O
<b>Mol. weight [g/mol]:</b>	221.36

## Physical Properties

Property code	Value	Unit	Source
gf	-324.44	kJ/mol	Joback Method
hf	-635.55	kJ/mol	Joback Method
hfus	36.05	kJ/mol	Joback Method
hvap	58.53	kJ/mol	Joback Method
log10ws	-2.40		Crippen Method
logp	2.238		Crippen Method
mvol	189.830	ml/mol	McGowan Method
pc	2438.65	kPa	Joback Method
rinpol	1947.00		NIST Webbook
rinpol	1947.00		NIST Webbook
tb	488.42	K	Joback Method
tc	647.72	K	Joback Method
tf	273.49	K	Joback Method
vc	0.740	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	433.40	J/mol×K	488.42	Joback Method
cpg	449.44	J/mol×K	514.97	Joback Method
cpg	464.86	J/mol×K	541.52	Joback Method
cpg	479.67	J/mol×K	568.07	Joback Method
cpg	493.87	J/mol×K	594.62	Joback Method
cpg	507.48	J/mol×K	621.17	Joback Method
cpg	520.51	J/mol×K	647.72	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U415439&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415439&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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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