

# Methanesulfonamide, N,N-dihexyl-

<b>Inchi:</b>	InChI=1S/C13H29NO2S/c1-4-6-8-10-12-14(17(3,15)16)13-11-9-7-5-2/h4-13H2,1-3H3
<b>InchiKey:</b>	DRSQXCLVVHQBIB-UHFFFAOYSA-N
<b>Formula:</b>	C13H29NO2S
<b>SMILES:</b>	CCCCCN(CCCCC)S(C)(=O)=O
<b>Mol. weight [g/mol]:</b>	263.44

## Physical Properties

Property code	Value	Unit	Source
gf	-299.18	kJ/mol	Joback Method
hf	-697.47	kJ/mol	Joback Method
hfus	43.82	kJ/mol	Joback Method
hvap	65.21	kJ/mol	Joback Method
log10ws	-3.66		Crippen Method
logp	3.409		Crippen Method
mcvol	232.100	ml/mol	McGowan Method
pc	1869.17	kPa	Joback Method
rinpol	1858.00		NIST Webbook
rinpol	1858.00		NIST Webbook
tb	557.06	K	Joback Method
tc	714.87	K	Joback Method
tf	307.30	K	Joback Method
vc	0.907	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	585.16	J/molxK	557.06	Joback Method
cpg	603.00	J/molxK	583.36	Joback Method
cpg	620.11	J/molxK	609.66	Joback Method
cpg	636.51	J/molxK	635.96	Joback Method
cpg	652.21	J/molxK	662.27	Joback Method
cpg	667.23	J/molxK	688.57	Joback Method
cpg	681.56	J/molxK	714.87	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=U308430&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308430&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>

# 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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