

# Methanesulfonamide, N,N-diheptyl-

<b>Inchi:</b>	InChI=1S/C15H33NO2S/c1-4-6-8-10-12-14-16(19(3,17)18)15-13-11-9-7-5-2/h4-15H2,1-3
<b>InchiKey:</b>	XGUHKPNYIPOJFH-UHFFFAOYSA-N
<b>Formula:</b>	C15H33NO2S
<b>SMILES:</b>	CCCCCCCN(CCCCCC)S(C)(=O)=O
<b>Mol. weight [g/mol]:</b>	291.49

## Physical Properties

Property code	Value	Unit	Source
gf	-282.34	kJ/mol	Joback Method
hf	-738.75	kJ/mol	Joback Method
hfus	49.00	kJ/mol	Joback Method
hvap	69.66	kJ/mol	Joback Method
log10ws	-4.50		Crippen Method
logp	4.189		Crippen Method
mvol	260.280	ml/mol	McGowan Method
pc	1593.62	kPa	Joback Method
rmpol	2059.00		NIST Webbook
rmpol	2059.00		NIST Webbook
tb	602.82	K	Joback Method
tc	760.68	K	Joback Method
tf	329.84	K	Joback Method
vc	1.020	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	694.12	J/mol×K	602.82	Joback Method
cpg	712.90	J/mol×K	629.13	Joback Method
cpg	730.88	J/mol×K	655.44	Joback Method
cpg	748.09	J/mol×K	681.75	Joback Method
cpg	764.53	J/mol×K	708.06	Joback Method
cpg	780.23	J/mol×K	734.37	Joback Method
cpg	795.20	J/mol×K	760.68	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308432&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308432&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>hvpap:</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>rinppl:</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/114-866-4/Methanesulfonamide-N-N-diheptyl.pdf>

Generated by Cheméo on 2024-04-30 17:49:57.431151075 +0000 UTC m=+16788646.351728387.

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