

# Methanesulfonamide, N,N-dinonyl-

**Inchi:** InChI=1S/C19H41NO2S/c1-4-6-8-10-12-14-16-18-20(23(3,21)22)19-17-15-13-11-9-7-5-2  
**InchiKey:** MBSOEMYDUPDFTQ-UHFFFAOYSA-N  
**Formula:** C19H41NO2S  
**SMILES:** CCCCCCCCCN(CCCCCCCCC)S(C)(=O)=O  
**Mol. weight [g/mol]:** 347.60

## Physical Properties

Property code	Value	Unit	Source
gf	-248.66	kJ/mol	Joback Method
hf	-821.31	kJ/mol	Joback Method
hfus	59.36	kJ/mol	Joback Method
hvap	78.57	kJ/mol	Joback Method
log10ws	-6.17		Crippen Method
logp	5.749		Crippen Method
mvol	316.640	ml/mol	McGowan Method
pc	1198.13	kPa	Joback Method
rmpol	2469.00		NIST Webbook
rmpol	2469.00		NIST Webbook
tb	694.34	K	Joback Method
tc	856.85	K	Joback Method
tf	374.92	K	Joback Method
vc	1.244	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	927.29	J/mol×K	694.34	Joback Method
cpg	947.73	J/mol×K	721.42	Joback Method
cpg	967.21	J/mol×K	748.51	Joback Method
cpg	985.77	J/mol×K	775.59	Joback Method
cpg	1003.42	J/mol×K	802.68	Joback Method
cpg	1020.19	J/mol×K	829.76	Joback Method
cpg	1036.10	J/mol×K	856.85	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308435&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308435&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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