

# Methanesulfonamide, N-ethyl-N-(3-methylphenyl)-

Inchi:	InChI=1S/C10H15NO2S/c1-4-11(14(3,12)13)10-7-5-6-9(2)8-10/h5-8H,4H2,1-3H3
InchiKey:	AAOXJWHSZYKKBZ-UHFFFAOYSA-N
Formula:	C10H15NO2S
SMILES:	CCN(c1cccc(C)c1)S(C)(=O)=O
Mol. weight [g/mol]:	213.30

## Physical Properties

Property code	Value	Unit	Source
gf	-221.66	kJ/mol	Joback Method
hf	-410.49	kJ/mol	Joback Method
hfus	29.71	kJ/mol	Joback Method
hvap	61.47	kJ/mol	Joback Method
log10ws	-2.10		Crippen Method
logp	1.781		Crippen Method
mcvol	166.070	ml/mol	McGowan Method
pc	3423.86	kPa	Joback Method
rinsol	1602.00		NIST Webbook
tb	520.08	K	Joback Method
tc	717.06	K	Joback Method
tf	312.43	K	Joback Method
vc	0.631	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	370.65	J/molxK	520.08	Joback Method
cpg	386.21	J/molxK	552.91	Joback Method
cpg	400.93	J/molxK	585.74	Joback Method
cpg	414.81	J/molxK	618.57	Joback Method
cpg	427.88	J/molxK	651.40	Joback Method
cpg	440.15	J/molxK	684.23	Joback Method
cpg	451.64	J/molxK	717.06	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=U308429&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308429&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>
<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>

# 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>h vap:</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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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