

# 5-Indansulfonamide

<b>Other names:</b>	indan-5-sulphonamide
<b>Inchi:</b>	InChI=1S/C9H11NO2S/c10-13(11,12)9-5-4-7-2-1-3-8(7)6-9/h4-6H,1-3H2,(H2,10,11,12)
<b>InchiKey:</b>	XVQJTFMKKZBBSX-UHFFFAOYSA-N
<b>Formula:</b>	C9H11NO2S
<b>SMILES:</b>	NS(=O)(=O)c1ccc2c(c1)CCC2
<b>Mol. weight [g/mol]:</b>	197.25
<b>CAS:</b>	35203-93-1

## Physical Properties

Property code	Value	Unit	Source
gf	-215.58	kJ/mol	Joback Method
hf	-341.92	kJ/mol	Joback Method
hfus	25.97	kJ/mol	Joback Method
hvap	68.73	kJ/mol	Joback Method
log10ws	-2.25		Crippen Method
logp	0.823		Crippen Method
mcvol	141.120	ml/mol	McGowan Method
pc	5058.59	kPa	Joback Method
tb	573.68	K	Joback Method
tc	803.16	K	Joback Method
tf	386.65	K	Joback Method
vc	0.544	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	333.55	J/molxK	573.68	Joback Method
cpg	347.24	J/molxK	611.93	Joback Method
cpg	359.92	J/molxK	650.17	Joback Method
cpg	371.63	J/molxK	688.42	Joback Method
cpg	382.43	J/molxK	726.67	Joback Method
cpg	392.36	J/molxK	764.91	Joback Method
cpg	401.47	J/molxK	803.16	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C35203931&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C35203931&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>

# 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>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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