

# N-naphthalen-2-yl-2-sulfanylacetamide

<b>Inchi:</b>	InChI=1S/C12H11NOS/c14-12(8-15)13-11-6-5-9-3-1-2-4-10(9)7-11/h1-7,15H,8H2,(H,13,
<b>InchiKey:</b>	SGMHGVVTMOGJMX-UHFFFAOYSA-N
<b>Formula:</b>	C12H11NOS
<b>SMILES:</b>	O=C(CS)Nc1ccc2ccccc2c1
<b>Mol. weight [g/mol]:</b>	217.29

## Physical Properties

Property code	Value	Unit	Source
gf	249.45	kJ/mol	Joback Method
hf	104.49	kJ/mol	Joback Method
hfus	28.25	kJ/mol	Joback Method
hvap	66.80	kJ/mol	Joback Method
log10ws	-3.34		Aqueous Solubility Prediction Method
logp	2.708		Crippen Method
mcvol	164.620	ml/mol	McGowan Method
pc	3589.94	kPa	Joback Method
tb	691.50	K	Joback Method
tc	945.79	K	Joback Method
tf	384.65	K	Aqueous Solubility Prediction Method
vc	0.617	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	405.70	J/molxK	691.50	Joback Method
cpg	418.34	J/molxK	733.88	Joback Method
cpg	429.91	J/molxK	776.26	Joback Method
cpg	440.51	J/molxK	818.65	Joback Method
cpg	450.25	J/molxK	861.03	Joback Method
cpg	459.22	J/molxK	903.41	Joback Method
cpg	467.53	J/molxK	945.79	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>Aqueous Solubility Prediction Method:</b>	<a href="http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx">http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx</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>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>hvap:</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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