

# Acetamide, N-(1-naphthyl)-2-phenylthio-

<b>Inchi:</b>	InChI=1S/C18H15NOS/c20-18(13-21-15-9-2-1-3-10-15)19-17-12-6-8-14-7-4-5-11-16(14)
<b>InchiKey:</b>	MEJSRRSAWKDLSH-UHFFFAOYSA-N
<b>Formula:</b>	C18H15NOS
<b>SMILES:</b>	O=C(CSc1cccc1)Nc1cccc2cccc12
<b>Mol. weight [g/mol]:</b>	293.38

## Physical Properties

Property code	Value	Unit	Source
gf	416.11	kJ/mol	Joback Method
hf	220.57	kJ/mol	Joback Method
hfus	37.92	kJ/mol	Joback Method
hvap	82.52	kJ/mol	Joback Method
log10ws	-5.45		Crippen Method
logp	4.571		Crippen Method
mcvol	225.400	ml/mol	McGowan Method
pc	2600.43	kPa	Joback Method
rinqol	2754.00		NIST Webbook
tb	861.38	K	Joback Method
tc	1126.65	K	Joback Method
tf	527.67	K	Joback Method
vc	0.845	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	632.18	J/mol×K	861.38	Joback Method
cpg	645.33	J/mol×K	905.59	Joback Method
cpg	657.28	J/mol×K	949.80	Joback Method
cpg	668.19	J/mol×K	994.02	Joback Method
cpg	678.19	J/mol×K	1038.23	Joback Method
cpg	687.45	J/mol×K	1082.44	Joback Method
cpg	696.10	J/mol×K	1126.65	Joback Method

# Sources

<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>
<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=U307212&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307212&amp;Units=SI</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>rinpola:</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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