

# 2-Phenylnaphthylsulfide

<b>Inchi:</b>	InChI=1S/C16H12S/c1-2-8-15(9-3-1)17-16-11-10-13-6-4-5-7-14(13)12-16/h1-12H
<b>InchiKey:</b>	APWYHOPXAIRDIZ-UHFFFAOYSA-N
<b>Formula:</b>	C16H12S
<b>SMILES:</b>	c1ccc(Sc2ccc3ccccc3c2)cc1
<b>Mol. weight [g/mol]:</b>	236.33
<b>CAS:</b>	7570-96-9

## Physical Properties

Property code	Value	Unit	Source
gf	438.80	kJ/mol	Joback Method
hf	320.96	kJ/mol	Joback Method
hfus	26.04	kJ/mol	Joback Method
hvap	64.88	kJ/mol	Joback Method
log10ws	-5.69		Crippen Method
logp	4.991		Crippen Method
mvol	185.670	ml/mol	McGowan Method
pc	2937.70	kPa	Joback Method
rinpol	364.94		NIST Webbook
rinpol	364.94		NIST Webbook
tb	711.58	K	Joback Method
tc	991.64	K	Joback Method
tf	402.54	K	Joback Method
vc	0.692	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	464.10	J/molxK	711.58	Joback Method
cpg	479.84	J/molxK	758.26	Joback Method
cpg	494.06	J/molxK	804.93	Joback Method
cpg	506.91	J/molxK	851.61	Joback Method
cpg	518.55	J/molxK	898.28	Joback Method
cpg	529.14	J/molxK	944.96	Joback Method
cpg	538.84	J/molxK	991.64	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=C7570969&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7570969&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>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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