

# Hydrazine, 1-(2-naphthoyl)-2-p-toluoyl-

<b>Other names:</b>	2'-(4-methylbenzoyl)-2-naphthohydrazide
<b>Inchi:</b>	InChI=1S/C19H16N2O2/c1-13-6-8-15(9-7-13)18(22)20-21-19(23)17-11-10-14-4-2-3-5-16
<b>InchiKey:</b>	MZJUACPKDPRXTP-UHFFFAOYSA-N
<b>Formula:</b>	C19H16N2O2
<b>SMILES:</b>	<chem>Cc1ccc(C(=O)NNC(=O)c2ccc3ccccc3c2)cc1</chem>
<b>Mol. weight [g/mol]:</b>	304.34
<b>CAS:</b>	83803-95-6

## Physical Properties

Property code	Value	Unit	Source
gf	342.25	kJ/mol	Joback Method
hf	87.48	kJ/mol	Joback Method
hfus	42.69	kJ/mol	Joback Method
hvap	91.77	kJ/mol	Joback Method
log10ws	-6.24		Crippen Method
logp	3.223		Crippen Method
mcvol	234.690	ml/mol	McGowan Method
pc	2467.81	kPa	Joback Method
tb	924.50	K	Joback Method
tc	1174.23	K	Joback Method
tf	619.65	K	Joback Method
vc	0.887	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	696.68	J/molxK	924.50	Joback Method
cpg	708.51	J/molxK	966.12	Joback Method
cpg	719.43	J/molxK	1007.74	Joback Method
cpg	729.55	J/molxK	1049.36	Joback Method
cpg	739.02	J/molxK	1090.99	Joback Method
cpg	747.96	J/molxK	1132.61	Joback Method
cpg	756.50	J/molxK	1174.23	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=C83803956&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C83803956&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>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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