

# Hydrazine, 1-(m-anisoyl)-2-(2-naphthoyl)-

<b>Inchi:</b>	InChI=1S/C19H16N2O3/c1-24-17-8-4-7-15(12-17)18(22)20-21-19(23)16-10-9-13-5-2-3-6
<b>InchiKey:</b>	DBAMYVBLJOTKPD-UHFFFAOYSA-N
<b>Formula:</b>	C19H16N2O3
<b>SMILES:</b>	COc1cccc(C(=O)NNC(=O)c2ccc3ccccc3c2)c1
<b>Mol. weight [g/mol]:</b>	320.34
<b>CAS:</b>	331636-67-0

## Physical Properties

Property code	Value	Unit	Source
gf	237.25	kJ/mol	Joback Method
hf	-44.74	kJ/mol	Joback Method
hfus	43.87	kJ/mol	Joback Method
hvap	94.18	kJ/mol	Joback Method
log10ws	-5.89		Crippen Method
logp	2.923		Crippen Method
mcvol	240.560	ml/mol	McGowan Method
pc	2426.65	kPa	Joback Method
tb	946.92	K	Joback Method
tc	1194.38	K	Joback Method
tf	641.88	K	Joback Method
vc	0.905	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	721.83	J/molxK	946.92	Joback Method
cpg	732.96	J/molxK	988.16	Joback Method
cpg	743.08	J/molxK	1029.41	Joback Method
cpg	752.29	J/molxK	1070.65	Joback Method
cpg	760.70	J/molxK	1111.89	Joback Method
cpg	768.41	J/molxK	1153.14	Joback Method
cpg	775.53	J/molxK	1194.38	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=C331636670&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C331636670&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>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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