

# Benzamide, N-(1-naphthyl)-3-trifluoromethyl-

<b>Inchi:</b>	InChI=1S/C18H12F3NO/c19-18(20,21)14-8-3-7-13(11-14)17(23)22-16-10-4-6-12-5-1-2-9
<b>InchiKey:</b>	MSMJKDNPWQCXLI-UHFFFAOYSA-N
<b>Formula:</b>	C18H12F3NO
<b>SMILES:</b>	O=C(Nc1cccc2ccccc12)c1cccc(C(F)(F)F)c1
<b>Mol. weight [g/mol]:</b>	315.29

## Physical Properties

Property code	Value	Unit	Source
gf	-208.23	kJ/mol	Joback Method
hf	-429.85	kJ/mol	Joback Method
hfus	35.22	kJ/mol	Joback Method
hvap	72.61	kJ/mol	Joback Method
log10ws	-6.36		Crippen Method
logp	5.111		Crippen Method
mvol	214.360	ml/mol	McGowan Method
pc	2248.26	kPa	Joback Method
rinpol	2385.00		NIST Webbook
rinpol	2385.00		NIST Webbook
tb	792.16	K	Joback Method
tc	1027.03	K	Joback Method
tf	509.98	K	Joback Method
vc	0.834	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	605.95	J/mol×K	792.16	Joback Method
cpg	618.52	J/mol×K	831.31	Joback Method
cpg	630.06	J/mol×K	870.45	Joback Method
cpg	640.71	J/mol×K	909.60	Joback Method
cpg	650.60	J/mol×K	948.74	Joback Method
cpg	659.88	J/mol×K	987.89	Joback Method
cpg	668.66	J/mol×K	1027.03	Joback Method

# Sources

<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=U306942&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U306942&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>h vap:</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>r in pol:</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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