

# 2,4,5-Trifluoro-3-methoxybenzamide, N-(1-naphthyl)-

<b>Inchi:</b>	InChI=1S/C18H12F3NO2/c1-24-17-15(20)12(9-13(19)16(17)21)18(23)22-14-8-4-6-10-5-
<b>InchiKey:</b>	DSTHAANBQHQFGV-UHFFFAOYSA-N
<b>Formula:</b>	C18H12F3NO2
<b>SMILES:</b>	COc1c(F)c(F)cc(C(=O)Nc2cccc3ccccc23)c1F
<b>Mol. weight [g/mol]:</b>	331.29

## Physical Properties

Property code	Value	Unit	Source
gf	-344.96	kJ/mol	Joback Method
hf	-587.73	kJ/mol	Joback Method
hfus	42.66	kJ/mol	Joback Method
hvap	78.31	kJ/mol	Joback Method
log10ws	-6.37		Crippen Method
logp	4.518		Crippen Method
mcvol	220.230	ml/mol	McGowan Method
pc	2085.03	kPa	Joback Method
rinpol	2670.00		NIST Webbook
rinpol	2670.00		NIST Webbook
tb	832.75	K	Joback Method
tc	1057.28	K	Joback Method
tf	567.35	K	Joback Method
vc	0.863	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	625.09	J/mol×K	832.75	Joback Method
cpg	636.80	J/mol×K	870.17	Joback Method
cpg	647.58	J/mol×K	907.59	Joback Method
cpg	657.48	J/mol×K	945.02	Joback Method
cpg	666.56	J/mol×K	982.44	Joback Method
cpg	674.87	J/mol×K	1019.86	Joback Method
cpg	682.46	J/mol×K	1057.28	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=U358072&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358072&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>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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