

# Benzamide, n-decyl-N-methyl-2,3,4-trifluoro-

<b>Inchi:</b>	InChI=1S/C18H26F3NO/c1-3-4-5-6-7-8-9-10-13-22(2)18(23)14-11-12-15(19)17(21)16(14)
<b>InchiKey:</b>	BBASOXGNNHQMTB-UHFFFAOYSA-N
<b>Formula:</b>	C18H26F3NO
<b>SMILES:</b>	CCCCCCCCCN(C)C(=O)c1ccc(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	329.40

## Physical Properties

Property code	Value	Unit	Source
gf	-418.37	kJ/mol	Joback Method
hf	-846.11	kJ/mol	Joback Method
hfus	49.11	kJ/mol	Joback Method
hvap	66.26	kJ/mol	Joback Method
log10ws	-6.38		Crippen Method
logp	5.317		Crippen Method
mvol	257.580	ml/mol	McGowan Method
pc	1337.84	kPa	Joback Method
rinpol	2115.00		NIST Webbook
rinpol	2115.00		NIST Webbook
tb	716.98	K	Joback Method
tc	894.19	K	Joback Method
tf	440.77	K	Joback Method
vc	1.014	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	744.82	J/mol×K	716.98	Joback Method
cpg	761.02	J/mol×K	746.51	Joback Method
cpg	776.37	J/mol×K	776.05	Joback Method
cpg	790.92	J/mol×K	805.58	Joback Method
cpg	804.68	J/mol×K	835.12	Joback Method
cpg	817.69	J/mol×K	864.65	Joback Method
cpg	829.98	J/mol×K	894.19	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=U308421&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308421&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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