

# Benzamide, 3-trifluoromethyl-N-ethyl-N-octyl-

<b>Inchi:</b>	InChI=1S/C18H26F3NO/c1-3-5-6-7-8-9-13-22(4-2)17(23)15-11-10-12-16(14-15)18(19,20
<b>InchiKey:</b>	WHQITOURSNFZFK-UHFFFAOYSA-N
<b>Formula:</b>	C18H26F3NO
<b>SMILES:</b>	CCCCCCCCN(CC)C(=O)c1cccc(C(F)(F)F)c1
<b>Mol. weight [g/mol]:</b>	329.40

## Physical Properties

Property code	Value	Unit	Source
gf	-396.27	kJ/mol	Joback Method
hf	-831.92	kJ/mol	Joback Method
hfus	42.47	kJ/mol	Joback Method
hvap	63.64	kJ/mol	Joback Method
log10ws	-6.07		Crippen Method
logp	5.528		Crippen Method
mvol	257.580	ml/mol	McGowan Method
pc	1387.11	kPa	Joback Method
rinpol	2168.00		NIST Webbook
rinpol	2168.00		NIST Webbook
tb	703.79	K	Joback Method
tc	884.99	K	Joback Method
tf	418.15	K	Joback Method
vc	1.002	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	747.44	J/mol×K	703.79	Joback Method
cpg	764.20	J/mol×K	733.99	Joback Method
cpg	779.99	J/mol×K	764.19	Joback Method
cpg	794.87	J/mol×K	794.39	Joback Method
cpg	808.90	J/mol×K	824.59	Joback Method
cpg	822.12	J/mol×K	854.79	Joback Method
cpg	834.59	J/mol×K	884.99	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=U415577&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415577&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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