

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

<b>Inchi:</b>	InChI=1S/C17H24F3NO/c1-3-5-6-7-8-12-21(4-2)16(22)14-10-9-11-15(13-14)17(18,19)20
<b>InchiKey:</b>	ASYDJKCUIZOFMW-UHFFFAOYSA-N
<b>Formula:</b>	C17H24F3NO
<b>SMILES:</b>	CCCCCCN(CC)C(=O)c1cccc(C(F)(F)F)c1
<b>Mol. weight [g/mol]:</b>	315.37

## Physical Properties

Property code	Value	Unit	Source
gf	-404.69	kJ/mol	Joback Method
hf	-811.28	kJ/mol	Joback Method
hfus	39.88	kJ/mol	Joback Method
hvap	61.42	kJ/mol	Joback Method
log10ws	-5.65		Crippen Method
logp	5.138		Crippen Method
mvol	243.490	ml/mol	McGowan Method
pc	1491.89	kPa	Joback Method
rinpol	2083.00		NIST Webbook
rinpol	2083.00		NIST Webbook
tb	680.91	K	Joback Method
tc	862.62	K	Joback Method
tf	406.88	K	Joback Method
vc	0.947	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	691.76	J/mol×K	680.91	Joback Method
cpg	708.22	J/mol×K	711.20	Joback Method
cpg	723.73	J/mol×K	741.48	Joback Method
cpg	738.33	J/mol×K	771.77	Joback Method
cpg	752.08	J/mol×K	802.05	Joback Method
cpg	765.03	J/mol×K	832.34	Joback Method
cpg	777.23	J/mol×K	862.62	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=U415576&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415576&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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