

# Benzamide, 4-(trifluoromethyl)-N-2-ethylhexyl-

<b>Inchi:</b>	InChI=1S/C16H22F3NO/c1-3-5-6-12(4-2)11-20-15(21)13-7-9-14(10-8-13)16(17,18)19/h7
<b>InchiKey:</b>	HNJDQUWAOKLFTP-UHFFFAOYSA-N
<b>Formula:</b>	C16H22F3NO
<b>SMILES:</b>	CCCCC(CC)CNC(=O)c1ccc(C(F)(F)F)cc1
<b>Mol. weight [g/mol]:</b>	301.35

## Physical Properties

Property code	Value	Unit	Source
gf	-436.94	kJ/mol	Joback Method
hf	-809.98	kJ/mol	Joback Method
hfus	35.85	kJ/mol	Joback Method
hvap	63.20	kJ/mol	Joback Method
log10ws	-5.61		Crippen Method
logp	4.652		Crippen Method
mvol	229.400	ml/mol	McGowan Method
pc	1639.10	kPa	Joback Method
rinpol	1915.00		NIST Webbook
rinpol	1915.00		NIST Webbook
tb	695.32	K	Joback Method
tc	884.23	K	Joback Method
tf	400.80	K	Joback Method
vc	0.901	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	655.79	J/mol×K	695.32	Joback Method
cpg	671.38	J/mol×K	726.81	Joback Method
cpg	686.02	J/mol×K	758.29	Joback Method
cpg	699.77	J/mol×K	789.78	Joback Method
cpg	712.67	J/mol×K	821.26	Joback Method
cpg	724.78	J/mol×K	852.75	Joback Method
cpg	736.14	J/mol×K	884.23	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>
<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=U407302&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407302&amp;Units=SI</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>hvp:</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>rinp:</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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