

# Benzamide, 4-(trifluoromethyl)-N-octyl-

<b>Inchi:</b>	InChI=1S/C16H22F3NO/c1-2-3-4-5-6-7-12-20-15(21)13-8-10-14(11-9-13)16(17,18)19/h8
<b>InchiKey:</b>	SIUIAKWLKXCUAX-UHFFFAOYSA-N
<b>Formula:</b>	C16H22F3NO
<b>SMILES:</b>	CCCCCCCCNC(=O)c1ccc(C(F)(F)F)cc1
<b>Mol. weight [g/mol]:</b>	301.35

## Physical Properties

Property code	Value	Unit	Source
gf	-434.50	kJ/mol	Joback Method
hf	-804.70	kJ/mol	Joback Method
hfus	39.37	kJ/mol	Joback Method
hvap	63.58	kJ/mol	Joback Method
log10ws	-5.85		Crippen Method
logp	4.796		Crippen Method
mvol	229.400	ml/mol	McGowan Method
pc	1628.54	kPa	Joback Method
rinpol	2023.00		NIST Webbook
rinpol	2023.00		NIST Webbook
tb	695.76	K	Joback Method
tc	881.99	K	Joback Method
tf	415.80	K	Joback Method
vc	0.907	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	655.29	J/mol×K	695.76	Joback Method
cpg	670.64	J/mol×K	726.80	Joback Method
cpg	685.07	J/mol×K	757.84	Joback Method
cpg	698.64	J/mol×K	788.88	Joback Method
cpg	711.39	J/mol×K	819.91	Joback Method
cpg	723.38	J/mol×K	850.95	Joback Method
cpg	734.65	J/mol×K	881.99	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U407304&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407304&amp;Units=SI</a>
<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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>

# 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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