

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

**Inchi:** InChI=1S/C26H42F3NO/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-22-30-25(31)23-18  
**InchiKey:** NZAPHYINIOCYBS-UHFFFAOYSA-N  
**Formula:** C26H42F3NO  
**SMILES:** CCCCCCCCCCCCCCCCCNC(=O)c1ccc(C(F)(F)F)cc1  
**Mol. weight [g/mol]:** 441.61

## Physical Properties

Property code	Value	Unit	Source
gf	-350.30	kJ/mol	Joback Method
hf	-1011.10	kJ/mol	Joback Method
hfus	65.27	kJ/mol	Joback Method
hvap	85.84	kJ/mol	Joback Method
log10ws	-10.04		Crippen Method
logp	8.697		Crippen Method
mvol	370.300	ml/mol	McGowan Method
pc	846.03	kPa	Joback Method
rinpol	3038.00		NIST Webbook
rinpol	3038.00		NIST Webbook
tb	924.56	K	Joback Method
tc	1132.58	K	Joback Method
tf	528.50	K	Joback Method
vc	1.468	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1247.30	J/mol×K	924.56	Joback Method
cpg	1266.56	J/mol×K	959.23	Joback Method
cpg	1284.65	J/mol×K	993.90	Joback Method
cpg	1301.66	J/mol×K	1028.57	Joback Method
cpg	1317.70	J/mol×K	1063.24	Joback Method
cpg	1332.87	J/mol×K	1097.91	Joback Method
cpg	1347.25	J/mol×K	1132.58	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.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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U407311&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407311&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>hvap:</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>rinpola:</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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