

# Benzamide, 6-trifluoromethyl-2-fluoro-N-octadecyl-

Inchi:	InChI=1S/C26H41F4NO/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-21-31-25(32)24-22
InchiKey:	XKHHMLMBXWCTGKQ-UHFFFAOYSA-N
Formula:	C26H41F4NO
SMILES:	CCCCCCCCCCCCCCCCCNC(=O)c1c(F)cccc1C(F)(F)F
Mol. weight [g/mol]:	459.60

## Physical Properties

Property code	Value	Unit	Source
gf	-554.74	kJ/mol	Joback Method
hf	-1218.68	kJ/mol	Joback Method
hfus	67.96	kJ/mol	Joback Method
hvap	85.69	kJ/mol	Joback Method
log10ws	-10.37		Crippen Method
logp	8.836		Crippen Method
mcvol	372.070	ml/mol	McGowan Method
pc	817.26	kPa	Joback Method
rinpol	1635.00		NIST Webbook
rinpol	1635.00		NIST Webbook
tb	928.81	K	Joback Method
tc	1139.25	K	Joback Method
tf	541.61	K	Joback Method
vc	1.486	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1254.04	J/mol×K	928.81	Joback Method
cpg	1273.23	J/mol×K	963.88	Joback Method
cpg	1291.23	J/mol×K	998.96	Joback Method
cpg	1308.12	J/mol×K	1034.03	Joback Method
cpg	1324.02	J/mol×K	1069.10	Joback Method
cpg	1339.00	J/mol×K	1104.17	Joback Method
cpg	1353.17	J/mol×K	1139.25	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=U406016&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406016&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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