

# Benzamide, 3-trifluoromethyl-N-octadecyl-N-butyl-

Inchi:	InChI=1S/C30H50F3NO/c1-3-5-7-8-9-10-11-12-13-14-15-16-17-18-19-20-25-34(24-6-4-2
InchiKey:	YVXDXIDZBGIONK-UHFFFAOYSA-N
Formula:	C30H50F3NO
SMILES:	CCCCCCCCCCCCCCCCCCN(CCCC)C(=O)c1cccc(C(F)(F)F)c1
Mol. weight [g/mol]:	497.72

## Physical Properties

Property code	Value	Unit	Source
gf	-295.23	kJ/mol	Joback Method
hf	-1079.60	kJ/mol	Joback Method
hfus	73.55	kJ/mol	Joback Method
hvap	90.35	kJ/mol	Joback Method
log10ws	-11.09		Crippen Method
logp	10.209		Crippen Method
mcvol	426.660	ml/mol	McGowan Method
pc	679.23	kPa	Joback Method
rinpol	1685.00		NIST Webbook
rinpol	1685.00		NIST Webbook
tb	978.35	K	Joback Method
tc	1207.23	K	Joback Method
tf	553.39	K	Joback Method
vc	1.675	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1482.24	J/mol×K	978.35	Joback Method
cpg	1504.79	J/mol×K	1016.50	Joback Method
cpg	1525.96	J/mol×K	1054.64	Joback Method
cpg	1545.91	J/mol×K	1092.79	Joback Method
cpg	1564.79	J/mol×K	1130.94	Joback Method
cpg	1582.75	J/mol×K	1169.09	Joback Method
cpg	1599.94	J/mol×K	1207.23	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.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=U415857&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415857&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>hvpap:</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>rinppl:</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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