

# Benzamide, 2,3,4-trifluoro-N-butyl-N-octadecyl-

Inchi:	InChI=1S/C29H48F3NO/c1-3-5-7-8-9-10-11-12-13-14-15-16-17-18-19-20-24-33(23-6-4-2
InchiKey:	ULEXFZCBZYIQLZ-UHFFFAOYSA-N
Formula:	C29H48F3NO
SMILES:	CCCCCCCCCCCCCCCCCN(CCCC)C(=O)c1ccc(F)c(F)c1F
Mol. weight [g/mol]:	483.69

## Physical Properties

Property code	Value	Unit	Source
gf	-325.75	kJ/mol	Joback Method
hf	-1073.15	kJ/mol	Joback Method
hfus	77.60	kJ/mol	Joback Method
hvap	90.75	kJ/mol	Joback Method
log10ws	-10.98		Crippen Method
logp	9.608		Crippen Method
mcvol	412.570	ml/mol	McGowan Method
pc	696.18	kPa	Joback Method
rinpol	1670.00		NIST Webbook
rinpol	1670.00		NIST Webbook
tb	968.66	K	Joback Method
tc	1196.62	K	Joback Method
tf	564.74	K	Joback Method
vc	1.629	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1417.73	J/molxK	968.66	Joback Method
cpg	1439.84	J/molxK	1006.65	Joback Method
cpg	1460.41	J/molxK	1044.65	Joback Method
cpg	1479.57	J/molxK	1082.64	Joback Method
cpg	1497.40	J/molxK	1120.63	Joback Method
cpg	1514.03	J/molxK	1158.63	Joback Method
cpg	1529.56	J/molxK	1196.62	Joback Method

# Sources

<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=U415692&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415692&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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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