

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

<b>Inchi:</b>	InChI=1S/C14H18F3NO/c1-3-5-9-18(8-4-2)14(19)10-6-7-11(15)13(17)12(10)16/h6-7H,3-
<b>InchiKey:</b>	FEEPZWQYCLXCT-UHFFFAOYSA-N
<b>Formula:</b>	C14H18F3NO
<b>SMILES:</b>	CCCCN(CCC)C(=O)c1ccc(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	273.29

## Physical Properties

Property code	Value	Unit	Source
gf	-452.05	kJ/mol	Joback Method
hf	-763.55	kJ/mol	Joback Method
hfus	38.75	kJ/mol	Joback Method
hvap	57.36	kJ/mol	Joback Method
log10ws	-4.70		Crippen Method
logp	3.756		Crippen Method
mvol	201.220	ml/mol	McGowan Method
pc	1810.77	kPa	Joback Method
rinpol	2244.00		NIST Webbook
rinpol	2244.00		NIST Webbook
tb	625.46	K	Joback Method
tc	804.34	K	Joback Method
tf	395.69	K	Joback Method
vc	0.789	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	528.39	J/mol×K	625.46	Joback Method
cpg	542.80	J/mol×K	655.27	Joback Method
cpg	556.48	J/mol×K	685.09	Joback Method
cpg	569.44	J/mol×K	714.90	Joback Method
cpg	581.72	J/mol×K	744.72	Joback Method
cpg	593.34	J/mol×K	774.53	Joback Method
cpg	604.32	J/mol×K	804.34	Joback Method

# Sources

<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=U415678&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415678&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>

# 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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