

# Benzamide, 2,3,4-trifluoro-N-butyl-N-hept-2-yl-

<b>Inchi:</b>	InChI=1S/C18H26F3NO/c1-4-6-8-9-13(3)22(12-7-5-2)18(23)14-10-11-15(19)17(21)16(14)
<b>InchiKey:</b>	QYJHFDPCFTUVNM-UHFFFAOYSA-N
<b>Formula:</b>	C18H26F3NO
<b>SMILES:</b>	CCCCC(C)N(CCCC)C(=O)c1ccc(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	329.40

## Physical Properties

Property code	Value	Unit	Source
gf	-420.81	kJ/mol	Joback Method
hf	-851.39	kJ/mol	Joback Method
hfus	45.59	kJ/mol	Joback Method
hvap	65.87	kJ/mol	Joback Method
log10ws	-6.49		Crippen Method
logp	5.315		Crippen Method
mvol	257.580	ml/mol	McGowan Method
pc	1345.70	kPa	Joback Method
rinpol	2456.00		NIST Webbook
rinpol	2456.00		NIST Webbook
tb	716.54	K	Joback Method
tc	895.69	K	Joback Method
tf	425.77	K	Joback Method
vc	1.008	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	745.31	J/molxK	716.54	Joback Method
cpg	761.70	J/molxK	746.40	Joback Method
cpg	777.23	J/molxK	776.26	Joback Method
cpg	791.92	J/molxK	806.12	Joback Method
cpg	805.80	J/molxK	835.98	Joback Method
cpg	818.91	J/molxK	865.83	Joback Method
cpg	831.28	J/molxK	895.69	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=U415683&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415683&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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