

# Benzamide, 4-(trifluoromethyl)-N-butyl-N-3-methylbutyl-

Inchi: InChI=1S/C17H24F3NO/c1-4-5-11-21(12-10-13(2)3)16(22)14-6-8-15(9-7-14)17(18,19)20

InchiKey: VGBCHDRCLOR-UHFFFAOYSA-N

Formula: C17H24F3NO

SMILES: CCCCNC(CCC(C)C)C(=O)c1ccc(C(F)(F)F)cc1

Mol. weight [g/mol]: 315.37

## Physical Properties

Property code	Value	Unit	Source
gf	-407.13	kJ/mol	Joback Method
hf	-816.56	kJ/mol	Joback Method
hfus	36.36	kJ/mol	Joback Method
hvap	61.03	kJ/mol	Joback Method
log10ws	-5.41		Crippen Method
logp	4.994		Crippen Method
mvol	243.490	ml/mol	McGowan Method
pc	1501.15	kPa	Joback Method
rinpol	2184.00		NIST Webbook
rinpol	2184.00		NIST Webbook
tb	680.47	K	Joback Method
tc	864.77	K	Joback Method
tf	391.88	K	Joback Method
vc	0.941	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	692.22	J/molxK	680.47	Joback Method
cpg	708.95	J/molxK	711.19	Joback Method
cpg	724.68	J/molxK	741.90	Joback Method
cpg	739.48	J/molxK	772.62	Joback Method
cpg	753.40	J/molxK	803.34	Joback Method
cpg	766.48	J/molxK	834.06	Joback Method
cpg	778.79	J/molxK	864.77	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=U415698&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415698&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>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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