

# Benzamide, 4-(trifluoromethyl)-N-butyl-N-nonyl-

Inchi:	InChI=1S/C21H32F3NO/c1-3-5-7-8-9-10-11-17-25(16-6-4-2)20(26)18-12-14-19(15-13-18)
InchiKey:	FZZWLEBNYBPGFK-UHFFFAOYSA-N
Formula:	C21H32F3NO
SMILES:	CCCCCCCCCN(CCCC)C(=O)c1ccc(C(F)(F)F)cc1
Mol. weight [g/mol]:	371.48

## Physical Properties

Property code	Value	Unit	Source
gf	-371.01	kJ/mol	Joback Method
hf	-893.84	kJ/mol	Joback Method
hfus	50.24	kJ/mol	Joback Method
hvap	70.32	kJ/mol	Joback Method
log10ws	-7.32		Crippen Method
logp	6.698		Crippen Method
mvol	299.850	ml/mol	McGowan Method
pc	1131.38	kPa	Joback Method
rinpol	2912.00		NIST Webbook
rinpol	2912.00		NIST Webbook
tb	772.43	K	Joback Method
tc	955.16	K	Joback Method
tf	451.96	K	Joback Method
vc	1.171	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	920.64	J/mol×K	772.43	Joback Method
cpg	938.27	J/mol×K	802.89	Joback Method
cpg	954.91	J/mol×K	833.34	Joback Method
cpg	970.61	J/mol×K	863.80	Joback Method
cpg	985.43	J/mol×K	894.25	Joback Method
cpg	999.42	J/mol×K	924.71	Joback Method
cpg	1012.66	J/mol×K	955.16	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=U415705&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415705&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.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>h vap:</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>r in pol:</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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