

# Benzamide, 2-trifluoromethyl-N-ethyl-N-butyl-

<b>Inchi:</b>	InChI=1S/C14H18F3NO/c1-3-5-10-18(4-2)13(19)11-8-6-7-9-12(11)14(15,16)17/h6-9H,3-
<b>InchiKey:</b>	CMLALNHFTWYVTC-UHFFFAOYSA-N
<b>Formula:</b>	C14H18F3NO
<b>SMILES:</b>	CCCCN(CC)C(=O)c1ccccc1C(F)(F)F
<b>Mol. weight [g/mol]:</b>	273.29

## Physical Properties

Property code	Value	Unit	Source
gf	-429.95	kJ/mol	Joback Method
hf	-749.36	kJ/mol	Joback Method
hfus	32.11	kJ/mol	Joback Method
hvap	54.74	kJ/mol	Joback Method
log10ws	-4.39		Crippen Method
logp	3.968		Crippen Method
mvol	201.220	ml/mol	McGowan Method
pc	1888.72	kPa	Joback Method
rinpol	1816.00		NIST Webbook
rinpol	1816.00		NIST Webbook
tb	612.27	K	Joback Method
tc	797.91	K	Joback Method
tf	373.07	K	Joback Method
vc	0.778	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	531.85	J/mol×K	612.27	Joback Method
cpg	547.28	J/mol×K	643.21	Joback Method
cpg	561.77	J/mol×K	674.15	Joback Method
cpg	575.38	J/mol×K	705.09	Joback Method
cpg	588.14	J/mol×K	736.03	Joback Method
cpg	600.11	J/mol×K	766.97	Joback Method
cpg	611.34	J/mol×K	797.91	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=U415601&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415601&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>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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