

# Benzamide, 4-(trifluoromethyl)-N-butyl-N-2-ethylhexyl-

Inchi:	InChI=1S/C20H30F3NO/c1-4-7-9-16(6-3)15-24(14-8-5-2)19(25)17-10-12-18(13-11-17)20
InchiKey:	NBSJRCSDEMTBFG-UHFFFAOYSA-N
Formula:	C20H30F3NO
SMILES:	CCCCC(CC)CN(CCCC)C(=O)c1ccc(C(F)(F)F)cc1
Mol. weight [g/mol]:	357.45

## Physical Properties

Property code	Value	Unit	Source
gf	-381.87	kJ/mol	Joback Method
hf	-878.48	kJ/mol	Joback Method
hfus	44.13	kJ/mol	Joback Method
hvap	67.71	kJ/mol	Joback Method
log10ws	-6.66		Crippen Method
logp	6.164		Crippen Method
mvol	285.760	ml/mol	McGowan Method
pc	1214.90	kPa	Joback Method
rinpol	2475.00		NIST Webbook
rinpol	2475.00		NIST Webbook
tb	749.11	K	Joback Method
tc	932.56	K	Joback Method
tf	425.69	K	Joback Method
vc	1.109	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	862.43	J/molxK	749.11	Joback Method
cpg	879.95	J/molxK	779.69	Joback Method
cpg	896.46	J/molxK	810.26	Joback Method
cpg	912.01	J/molxK	840.84	Joback Method
cpg	926.67	J/molxK	871.41	Joback Method
cpg	940.49	J/molxK	901.99	Joback Method
cpg	953.53	J/molxK	932.56	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U415702&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415702&amp;Units=SI</a>
<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

# 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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