

# Benzamide, 3-trifluoromethyl-N-ethyl-N-pentyl-

<b>Inchi:</b>	InChI=1S/C15H20F3NO/c1-3-5-6-10-19(4-2)14(20)12-8-7-9-13(11-12)15(16,17)18/h7-9,
<b>InchiKey:</b>	HSGMVESYUFEISK-UHFFFAOYSA-N
<b>Formula:</b>	C15H20F3NO
<b>SMILES:</b>	CCCCCN(CC)C(=O)c1cccc(C(F)(F)F)c1
<b>Mol. weight [g/mol]:</b>	287.32

## Physical Properties

Property code	Value	Unit	Source
gf	-421.53	kJ/mol	Joback Method
hf	-770.00	kJ/mol	Joback Method
hfus	34.70	kJ/mol	Joback Method
hvap	56.96	kJ/mol	Joback Method
log10ws	-4.81		Crippen Method
logp	4.358		Crippen Method
mvol	215.310	ml/mol	McGowan Method
pc	1740.46	kPa	Joback Method
rinpol	1870.00		NIST Webbook
rinpol	1870.00		NIST Webbook
tb	635.15	K	Joback Method
tc	819.13	K	Joback Method
tf	384.34	K	Joback Method
vc	0.835	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	583.89	J/mol×K	635.15	Joback Method
cpg	599.70	J/mol×K	665.81	Joback Method
cpg	614.57	J/mol×K	696.48	Joback Method
cpg	628.54	J/mol×K	727.14	Joback Method
cpg	641.67	J/mol×K	757.80	Joback Method
cpg	654.00	J/mol×K	788.47	Joback Method
cpg	665.58	J/mol×K	819.13	Joback Method

# Sources

<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=U415572&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415572&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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