

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

Inchi:	InChI=1S/C22H34F3NO/c1-3-5-6-7-8-9-10-11-12-13-17-26(4-2)21(27)19-15-14-16-20(18)
InchiKey:	OKZFYKQZYZLLN-UHFFFAOYSA-N
Formula:	C22H34F3NO
SMILES:	CCCCCCCCCCCCN(CC)C(=O)c1cccc(C(F)(F)F)c1
Mol. weight [g/mol]:	385.51

## Physical Properties

Property code	Value	Unit	Source
gf	-362.59	kJ/mol	Joback Method
hf	-914.48	kJ/mol	Joback Method
hfus	52.83	kJ/mol	Joback Method
hvap	72.55	kJ/mol	Joback Method
log10ws	-7.74		Crippen Method
logp	7.088		Crippen Method
mcvol	313.940	ml/mol	McGowan Method
pc	1061.71	kPa	Joback Method
rinpola	2766.00		NIST Webbook
rinpola	2766.00		NIST Webbook
tb	795.31	K	Joback Method
tc	979.76	K	Joback Method
tf	463.23	K	Joback Method
vc	1.226	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	980.21	J/molxK	795.31	Joback Method
cpg	998.17	J/molxK	826.05	Joback Method
cpg	1015.12	J/molxK	856.79	Joback Method
cpg	1031.11	J/molxK	887.54	Joback Method
cpg	1046.20	J/molxK	918.28	Joback Method
cpg	1060.48	J/molxK	949.02	Joback Method
cpg	1073.98	J/molxK	979.76	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=U415581&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415581&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>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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