

# Benzamide, 2,3,4-trifluoro-N-butyl-N-dodecyl-

<b>Inchi:</b>	InChI=1S/C23H36F3NO/c1-3-5-7-8-9-10-11-12-13-14-18-27(17-6-4-2)23(28)19-15-16-20
<b>InchiKey:</b>	UWUWEDRDSBNQQE-UHFFFAOYSA-N
<b>Formula:</b>	C23H36F3NO
<b>SMILES:</b>	CCCCCCCCCCCCN(CCCC)C(=O)c1ccc(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	399.53

## Physical Properties

Property code	Value	Unit	Source
gf	-376.27	kJ/mol	Joback Method
hf	-949.31	kJ/mol	Joback Method
hfus	62.06	kJ/mol	Joback Method
hvap	77.39	kJ/mol	Joback Method
log10ws	-8.47		Crippen Method
logp	7.267		Crippen Method
mvol	328.030	ml/mol	McGowan Method
pc	968.07	kPa	Joback Method
rinpol	3266.00		NIST Webbook
rinpol	3266.00		NIST Webbook
tb	831.38	K	Joback Method
tc	1018.81	K	Joback Method
tf	497.12	K	Joback Method
vc	1.294	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1039.53	J/molxK	831.38	Joback Method
cpg	1057.81	J/molxK	862.62	Joback Method
cpg	1075.05	J/molxK	893.86	Joback Method
cpg	1091.31	J/molxK	925.10	Joback Method
cpg	1106.62	J/molxK	956.34	Joback Method
cpg	1121.04	J/molxK	987.57	Joback Method
cpg	1134.61	J/molxK	1018.81	Joback Method

# Sources

<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=U415689&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415689&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>
<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>

# 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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