

# Benzamide, 3-trifluoromethyl-2-fluoro-N-dodecyl-

Inchi:	InChI=1S/C20H29F4NO/c1-2-3-4-5-6-7-8-9-10-11-15-25-19(26)16-13-12-14-17(18(16)21
InchiKey:	GUQIHRFWBWUNOZ-UHFFFAOYSA-N
Formula:	C20H29F4NO
SMILES:	CCCCCCCCCCCCNC(=O)c1cccc(C(F)(F)F)c1F
Mol. weight [g/mol]:	375.44

## Physical Properties

Property code	Value	Unit	Source
gf	-605.26	kJ/mol	Joback Method
hf	-1094.84	kJ/mol	Joback Method
hfus	52.42	kJ/mol	Joback Method
hvap	72.33	kJ/mol	Joback Method
log10ws	-7.86		Crippen Method
logp	6.495		Crippen Method
mvol	287.530	ml/mol	McGowan Method
pc	1171.22	kPa	Joback Method
rinpol	2333.00		NIST Webbook
rinpol	2333.00		NIST Webbook
tb	791.53	K	Joback Method
tc	975.67	K	Joback Method
tf	473.99	K	Joback Method
vc	1.149	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	888.97	J/mol×K	791.53	Joback Method
cpg	905.14	J/mol×K	822.22	Joback Method
cpg	920.39	J/mol×K	852.91	Joback Method
cpg	934.76	J/mol×K	883.60	Joback Method
cpg	948.30	J/mol×K	914.29	Joback Method
cpg	961.08	J/mol×K	944.98	Joback Method
cpg	973.13	J/mol×K	975.67	Joback Method

# Sources

<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.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=U407712&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407712&amp;Units=SI</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>hvpap:</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>rinppl:</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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