

# Benzamide, 4-(trifluoromethyl)-N-dodecyl-

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

## Physical Properties

Property code	Value	Unit	Source
gf	-400.82	kJ/mol	Joback Method
hf	-887.26	kJ/mol	Joback Method
hfus	49.73	kJ/mol	Joback Method
hvap	72.49	kJ/mol	Joback Method
log10ws	-7.52		Crippen Method
logp	6.356		Crippen Method
mvol	285.760	ml/mol	McGowan Method
pc	1220.85	kPa	Joback Method
rinpol	2428.00		NIST Webbook
rinpol	2428.00		NIST Webbook
tb	787.28	K	Joback Method
tc	973.86	K	Joback Method
tf	460.88	K	Joback Method
vc	1.131	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	881.85	J/mol×K	787.28	Joback Method
cpg	898.48	J/mol×K	818.38	Joback Method
cpg	914.15	J/mol×K	849.47	Joback Method
cpg	928.90	J/mol×K	880.57	Joback Method
cpg	942.81	J/mol×K	911.66	Joback Method
cpg	955.92	J/mol×K	942.76	Joback Method
cpg	968.30	J/mol×K	973.86	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U407308&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407308&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.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>

# 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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