

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

<b>Inchi:</b>	InChI=1S/C18H26F3NO/c1-2-3-4-5-6-7-8-9-14-22-17(23)15-10-12-16(13-11-15)18(19,20)
<b>InchiKey:</b>	KCYNMOKYHCGCG-UHFFFAOYSA-N
<b>Formula:</b>	C18H26F3NO
<b>SMILES:</b>	CCCCCCCCCNC(=O)c1ccc(C(F)(F)F)cc1
<b>Mol. weight [g/mol]:</b>	329.40

## Physical Properties

Property code	Value	Unit	Source
gf	-417.66	kJ/mol	Joback Method
hf	-845.98	kJ/mol	Joback Method
hfus	44.55	kJ/mol	Joback Method
hvap	68.04	kJ/mol	Joback Method
log10ws	-6.69		Crippen Method
logp	5.576		Crippen Method
mvol	257.580	ml/mol	McGowan Method
pc	1402.74	kPa	Joback Method
rinpol	2225.00		NIST Webbook
rinpol	2225.00		NIST Webbook
tb	741.52	K	Joback Method
tc	926.83	K	Joback Method
tf	438.34	K	Joback Method
vc	1.020	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	766.54	J/mol×K	741.52	Joback Method
cpg	782.54	J/mol×K	772.40	Joback Method
cpg	797.60	J/mol×K	803.29	Joback Method
cpg	811.77	J/mol×K	834.17	Joback Method
cpg	825.12	J/mol×K	865.06	Joback Method
cpg	837.69	J/mol×K	895.94	Joback Method
cpg	849.53	J/mol×K	926.83	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=U407306&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407306&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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>rlnol:</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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