

# Benzamide, 2,5-di(trifluoromethyl)-N-methyl-

<b>Inchi:</b>	InChI=1S/C10H7F6NO/c1-17-8(18)6-4-5(9(11,12)13)2-3-7(6)10(14,15)16/h2-4H,1H3,(H,
<b>InchiKey:</b>	VKHJXQJUDHLTPD-UHFFFAOYSA-N
<b>Formula:</b>	C10H7F6NO
<b>SMILES:</b>	CNC(=O)c1cc(C(F)(F)F)ccc1C(F)(F)F
<b>Mol. weight [g/mol]:</b>	271.16

## Physical Properties

Property code	Value	Unit	Source
gf	-1076.24	kJ/mol	Joback Method
hf	-1289.41	kJ/mol	Joback Method
hfus	25.27	kJ/mol	Joback Method
hvap	47.14	kJ/mol	Joback Method
log10ws	-4.02		Crippen Method
logp	3.084		Crippen Method
mvol	150.170	ml/mol	McGowan Method
pc	2419.50	kPa	Joback Method
rinpol	1281.00		NIST Webbook
rinpol	1281.00		NIST Webbook
tb	558.04	K	Joback Method
tc	741.49	K	Joback Method
tf	364.89	K	Joback Method
vc	0.615	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	379.56	J/molxK	558.04	Joback Method
cpg	390.75	J/molxK	588.61	Joback Method
cpg	401.13	J/molxK	619.19	Joback Method
cpg	410.76	J/molxK	649.76	Joback Method
cpg	419.69	J/molxK	680.34	Joback Method
cpg	427.95	J/molxK	710.91	Joback Method
cpg	435.60	J/molxK	741.49	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=U407914&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407914&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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