

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

<b>Inchi:</b>	InChI=1S/C17H21F6NO/c1-2-3-4-5-6-7-10-24-15(25)13-11-12(16(18,19)20)8-9-14(13)17
<b>InchiKey:</b>	JOSFATBGLZJFRY-UHFFFAOYSA-N
<b>Formula:</b>	C17H21F6NO
<b>SMILES:</b>	CCCCCCCCNC(=O)c1cc(C(F)(F)F)ccc1C(F)(F)F
<b>Mol. weight [g/mol]:</b>	369.35

## Physical Properties

Property code	Value	Unit	Source
gf	-1017.30	kJ/mol	Joback Method
hf	-1433.89	kJ/mol	Joback Method
hfus	43.40	kJ/mol	Joback Method
hvap	62.72	kJ/mol	Joback Method
log10ws	-6.95		Crippen Method
logp	5.815		Crippen Method
mvol	248.800	ml/mol	McGowan Method
pc	1366.68	kPa	Joback Method
rinpol	1850.00		NIST Webbook
rinpol	1850.00		NIST Webbook
tb	718.20	K	Joback Method
tc	895.35	K	Joback Method
tf	443.78	K	Joback Method
vc	1.006	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	735.51	J/mol×K	718.20	Joback Method
cpg	749.89	J/mol×K	747.73	Joback Method
cpg	763.40	J/mol×K	777.25	Joback Method
cpg	776.11	J/mol×K	806.78	Joback Method
cpg	788.06	J/mol×K	836.30	Joback Method
cpg	799.30	J/mol×K	865.83	Joback Method
cpg	809.90	J/mol×K	895.35	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.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>
<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=U407925&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407925&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>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

Latest version available from:

<https://www.cheméo.com/cid/115-125-5/Benzamide-2-5-di-trifluoromethyl-N-octyl.pdf>

Generated by Cheméo on 2024-05-10 15:48:47.596977543 +0000 UTC m=+17645376.517554854.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.