

# Benzamide, pentafluoro-N-(pentafluorobenzoyl)-N-methyl-

**Inchi:** InChI=1S/C15H3F10NO2/c1-26(14(27)2-4(16)8(20)12(24)9(21)5(2)17)15(28)3-6(18)10(2)  
**InchiKey:** JOBHSYHTERJYGG-UHFFFAOYSA-N  
**Formula:** C15H3F10NO2  
**SMILES:** CN(C(=O)c1c(F)c(F)c(F)c(F)c1F)C(=O)c1c(F)c(F)c(F)c(F)c1F  
**Mol. weight [g/mol]:** 419.17

## Physical Properties

Property code	Value	Unit	Source
gf	-1891.22	kJ/mol	Joback Method
hf	-2113.30	kJ/mol	Joback Method
hfus	55.82	kJ/mol	Joback Method
hvap	67.52	kJ/mol	Joback Method
log10ws	-6.90		Crippen Method
logp	3.990		Crippen Method
mcvol	205.510	ml/mol	McGowan Method
pc	1636.45	kPa	Joback Method
rinpol	1549.00		NIST Webbook
tb	758.64	K	Joback Method
tc	938.71	K	Joback Method
tf	575.08	K	Joback Method
vc	0.870	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	559.06	J/molxK	758.64	Joback Method
cpg	567.67	J/molxK	788.65	Joback Method
cpg	575.71	J/molxK	818.66	Joback Method
cpg	583.18	J/molxK	848.67	Joback Method
cpg	590.10	J/molxK	878.68	Joback Method
cpg	596.46	J/molxK	908.70	Joback Method
cpg	602.28	J/molxK	938.71	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=U407952&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407952&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>hvac:</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>rinpol:</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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