

# Benzamide, pentafluoro-N-octyl-

<b>Inchi:</b>	InChI=1S/C15H18F5NO/c1-2-3-4-5-6-7-8-21-15(22)9-10(16)12(18)14(20)13(19)11(9)17(10)
<b>InchiKey:</b>	LUGHWPTZTPSUOE-UHFFFAOYSA-N
<b>Formula:</b>	C15H18F5NO
<b>SMILES:</b>	CCCCCCCCNC(=O)c1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	323.30

## Physical Properties

Property code	Value	Unit	Source
gf	-873.90	kJ/mol	Joback Method
hf	-1213.41	kJ/mol	Joback Method
hfus	48.80	kJ/mol	Joback Method
hvap	63.67	kJ/mol	Joback Method
log10ws	-6.40		Crippen Method
logp	4.472		Crippen Method
mvol	218.850	ml/mol	McGowan Method
pc	1536.66	kPa	Joback Method
rinpol	1896.00		NIST Webbook
rinpol	1896.00		NIST Webbook
tb	694.57	K	Joback Method
tc	867.56	K	Joback Method
tf	453.37	K	Joback Method
vc	0.898	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	612.14	J/mol×K	694.57	Joback Method
cpg	625.29	J/mol×K	723.40	Joback Method
cpg	637.79	J/mol×K	752.23	Joback Method
cpg	649.67	J/mol×K	781.07	Joback Method
cpg	660.93	J/mol×K	809.90	Joback Method
cpg	671.58	J/mol×K	838.73	Joback Method
cpg	681.65	J/mol×K	867.56	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=U407944&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407944&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>h vap:</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>r in pol:</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.chemeo.com/cid/117-735-6/Benzamide-pentafluoro-N-octyl.pdf>

Generated by Cheméo on 2024-05-18 07:40:37.289002194 +0000 UTC m=+18307286.209579509.

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