

# N-(4-Bromophenyl)-2,3,4,5,6-pentafluorobenzamide

<b>Other names:</b>	Benzamide, N-(4-bromophenyl)-2,3,4,5,6-pentafluoro-
<b>Inchi:</b>	InChI=1S/C13H5BrF5NO/c14-5-1-3-6(4-2-5)20-13(21)7-8(15)10(17)12(19)11(18)9(7)16/
<b>InchiKey:</b>	IDWYRSRIRSQVBS-UHFFFAOYSA-N
<b>Formula:</b>	C13H5BrF5NO
<b>SMILES:</b>	O=C(Nc1ccc(Br)cc1)c1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	366.08
<b>CAS:</b>	63462-61-3

## Physical Properties

Property code	Value	Unit	Source
gf	-773.64	kJ/mol	Joback Method
hf	-920.74	kJ/mol	Joback Method
hfus	42.56	kJ/mol	Joback Method
hvap	68.59	kJ/mol	Joback Method
log10ws	-6.27		Crippen Method
logp	4.397		Crippen Method
mcvol	184.410	ml/mol	McGowan Method
pc	2566.29	kPa	Joback Method
rinpol	2019.00		NIST Webbook
rinpol	2019.00		NIST Webbook
tb	746.63	K	Joback Method
tc	960.66	K	Joback Method
tf	529.57	K	Joback Method
vc	0.741	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	454.49	J/molxK	746.63	Joback Method
cpg	463.57	J/molxK	782.30	Joback Method
cpg	471.95	J/molxK	817.97	Joback Method
cpg	479.67	J/molxK	853.65	Joback Method
cpg	486.76	J/molxK	889.32	Joback Method
cpg	493.25	J/molxK	924.99	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=C63462613&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C63462613&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>hvap:</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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