

# Benzamide, N-(4-bromophenyl)-2,3,4-trifluoro-

<b>Inchi:</b>	InChI=1S/C13H7BrF3NO/c14-7-1-3-8(4-2-7)18-13(19)9-5-6-10(15)12(17)11(9)16/h1-6H,
<b>InchiKey:</b>	QVVOZMRHZFWWRH-UHFFFAOYSA-N
<b>Formula:</b>	C13H7BrF3NO
<b>SMILES:</b>	O=C(Nc1ccc(Br)cc1)c1ccc(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	330.10

## Physical Properties

Property code	Value	Unit	Source
gf	-364.76	kJ/mol	Joback Method
hf	-505.58	kJ/mol	Joback Method
hfus	37.18	kJ/mol	Joback Method
hvap	68.90	kJ/mol	Joback Method
log10ws	-5.61		Crippen Method
logp	4.119		Crippen Method
mcvol	180.870	ml/mol	McGowan Method
pc	2909.25	kPa	Joback Method
rinqol	2087.00		NIST Webbook
tb	738.13	K	Joback Method
tc	968.25	K	Joback Method
tf	503.35	K	Joback Method
vc	0.705	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	442.21	J/molxK	738.13	Joback Method
cpg	452.44	J/molxK	776.48	Joback Method
cpg	461.84	J/molxK	814.84	Joback Method
cpg	470.44	J/molxK	853.19	Joback Method
cpg	478.31	J/molxK	891.55	Joback Method
cpg	485.49	J/molxK	929.90	Joback Method
cpg	492.03	J/molxK	968.25	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=U307178&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307178&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>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>mccol:</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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