

# N-(3-Bromo-4-hydroxy-phenyl)-4-nitro-benzenesulfonamide

InChI: O=C(Oc1ccc(N(C(=O)C(F)(F)C(F)(F)F)S(=O)(=O)c2ccc([N+](=O)[O-])cc2)cc1Br)C(F)(F)F  
InChIKey: PSQBNIGRERUAML-UHFFFAOYSA-N  
Formula: C18H7BrF10N2O7S  
SMILES: O=C(Oc1ccc(N(C(=O)C(F)(F)C(F)(F)F)S(=O)(=O)c2ccc([N+](=O)[O-])cc2)cc1Br)C(F)(F)F  
Mol. weight [g/mol]: 665.21

## Physical Properties

Property code	Value	Unit	Source
gf	-2310.86	kJ/mol	Joback Method
hf	-2699.93	kJ/mol	Joback Method
hfus	65.87	kJ/mol	Joback Method
hvap	108.45	kJ/mol	Joback Method
log10ws	-7.99		Crippen Method
logp	5.380		Crippen Method
mcvol	316.660	ml/mol	McGowan Method
pc	1795.46	kPa	Joback Method
rinpol	2347.00		NIST Webbook
tb	1067.70	K	Joback Method
tc	1307.28	K	Joback Method
tf	795.13	K	Joback Method
vc	1.282	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	948.27	J/molxK	1067.70	Joback Method
cpg	953.78	J/molxK	1107.63	Joback Method
cpg	958.89	J/molxK	1147.56	Joback Method
cpg	963.77	J/molxK	1187.49	Joback Method
cpg	968.62	J/molxK	1227.42	Joback Method
cpg	973.60	J/molxK	1267.35	Joback Method
cpg	978.91	J/molxK	1307.28	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=U374412&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U374412&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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