

# N-(2-Hydroxy-propionyl)-4-methyl-benzenesulfonamide

<b>Inchi:</b>	InChI=1S/C10H13NO4S/c1-7-3-5-9(6-4-7)16(14,15)11-10(13)8(2)12/h3-6,8,12H,1-2H3,(
<b>InchiKey:</b>	UGYBMUFRMSFALF-UHFFFAOYSA-N
<b>Formula:</b>	C10H13NO4S
<b>SMILES:</b>	<chem>Cc1ccc(S(=O)(=O)NC(=O)C(C)O)cc1</chem>
<b>Mol. weight [g/mol]:</b>	243.28
<b>CAS:</b>	91013-53-5

## Physical Properties

Property code	Value	Unit	Source
gf	-511.23	kJ/mol	Joback Method
hf	-694.64	kJ/mol	Joback Method
hfus	33.95	kJ/mol	Joback Method
hvap	88.90	kJ/mol	Joback Method
log10ws	-1.81		Crippen Method
logp	0.181		Crippen Method
mcvol	173.510	ml/mol	McGowan Method
pc	4266.28	kPa	Joback Method
rinpol	2115.00		NIST Webbook
rinpol	2115.00		NIST Webbook
tb	703.42	K	Joback Method
tc	902.96	K	Joback Method
tf	428.37	K	Joback Method
vc	0.667	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	457.24	J/molxK	703.42	Joback Method
cpg	468.21	J/molxK	736.68	Joback Method
cpg	478.38	J/molxK	769.93	Joback Method
cpg	487.77	J/molxK	803.19	Joback Method
cpg	496.39	J/molxK	836.45	Joback Method
cpg	504.25	J/molxK	869.70	Joback Method
cpg	511.38	J/molxK	902.96	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C91013535&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C91013535&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<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>

# 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>hvp:</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>rinp:</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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