

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

InChI: InChI=1S/C12H15NO5S/c1-8-4-6-11(7-5-8)19(16,17)13-12(15)9(2)18-10(3)14/h4-7,9H,1  
O-acetyl-  
InChIKey: CELNKQZYEGTTMP-UHFFFAOYSA-N

Formula: C12H15NO5S

SMILES: CC(=O)OC(C)C(=O)NS(=O)(=O)c1ccc(C)cc1

Mol. weight [g/mol]: 285.32

## Physical Properties

Property code	Value	Unit	Source
gf	-591.49	kJ/mol	Joback Method
hf	-828.49	kJ/mol	Joback Method
hfus	37.83	kJ/mol	Joback Method
hvap	85.83	kJ/mol	Joback Method
log10ws	-2.24		Crippen Method
logp	0.752		Crippen Method
mcvol	203.260	ml/mol	McGowan Method
pc	3195.54	kPa	Joback Method
rinpol	2096.00		NIST Webbook
rinpol	2096.00		NIST Webbook
tb	733.29	K	Joback Method
tc	943.79	K	Joback Method
tf	462.25	K	Joback Method
vc	0.784	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	548.34	J/molxK	733.29	Joback Method
cpg	561.15	J/molxK	768.37	Joback Method
cpg	572.93	J/molxK	803.46	Joback Method
cpg	583.69	J/molxK	838.54	Joback Method
cpg	593.43	J/molxK	873.62	Joback Method
cpg	602.15	J/molxK	908.70	Joback Method
cpg	609.84	J/molxK	943.79	Joback Method

# Sources

<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=U374742&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U374742&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>

# 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>rinpola:</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.cheméo.com/cid/13-643-3/N-2-Hydroxy-propionyl-4-methyl-benzenesulfonamide-O-acetyl.pdf>

Generated by Cheméo on 2024-04-23 12:47:16.023748459 +0000 UTC m=+16165684.944325774.

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