

# N'-phenylmethanesulfonohydrazide

<b>Inchi:</b>	InChI=1S/C7H10N2O2S/c1-12(10,11)9-8-7-5-3-2-4-6-7/h2-6,8-9H,1H3
<b>InchiKey:</b>	UQPFSVMPYHXOFG-UHFFFAOYSA-N
<b>Formula:</b>	C7H10N2O2S
<b>SMILES:</b>	CS(=O)(=O)NNc1ccccc1
<b>Mol. weight [g/mol]:</b>	186.23
<b>CAS:</b>	109425-98-1

## Physical Properties

Property code	Value	Unit	Source
gf	-169.29	kJ/mol	Joback Method
hf	-297.69	kJ/mol	Joback Method
hfus	29.50	kJ/mol	Joback Method
hvap	64.96	kJ/mol	Joback Method
log10ws	-1.48		Crippen Method
logp	0.563		Crippen Method
mcvol	133.780	ml/mol	McGowan Method
pc	5266.25	kPa	Joback Method
tb	534.36	K	Joback Method
tc	743.76	K	Joback Method
tf	338.95	K	Joback Method
vc	0.515	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	296.64	J/molxK	534.36	Joback Method
cpg	309.31	J/molxK	569.26	Joback Method
cpg	321.20	J/molxK	604.16	Joback Method
cpg	332.31	J/molxK	639.06	Joback Method
cpg	342.65	J/molxK	673.96	Joback Method
cpg	352.24	J/molxK	708.86	Joback Method
cpg	361.10	J/molxK	743.76	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C109425981&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C109425981&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.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>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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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