

# 1,2-Diphenyl sulfonyl hydrazine

<b>Inchi:</b>	InChI=1S/C12H12N2O4S2/c15-19(16,11-7-3-1-4-8-11)13-14-20(17,18)12-9-5-2-6-10-12
<b>InchiKey:</b>	VWSUQBGNFFSLB-UHFFFAOYSA-N
<b>Formula:</b>	C12H12N2O4S2
<b>SMILES:</b>	O=S(=O)(NNS(=O)(=O)c1ccccc1)c1ccccc1
<b>Mol. weight [g/mol]:</b>	312.37
<b>CAS:</b>	6272-36-2

## Physical Properties

Property code	Value	Unit	Source
gf	-483.32	kJ/mol	Joback Method
hf	-617.71	kJ/mol	Joback Method
hfus	47.87	kJ/mol	Joback Method
hvap	97.00	kJ/mol	Joback Method
log10ws	-3.02		Crippen Method
logp	0.858		Crippen Method
mcvol	208.560	ml/mol	McGowan Method
pc	5312.41	kPa	Joback Method
tb	723.22	K	Joback Method
tc	947.83	K	Joback Method
tf	460.28	K	Joback Method
vc	0.814	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	545.48	J/molxK	723.22	Joback Method
cpg	558.87	J/molxK	760.65	Joback Method
cpg	570.91	J/molxK	798.09	Joback Method
cpg	581.62	J/molxK	835.52	Joback Method
cpg	591.03	J/molxK	872.96	Joback Method
cpg	599.17	J/molxK	910.39	Joback Method
cpg	606.06	J/molxK	947.83	Joback Method

# Sources

<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=C6272362&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6272362&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>
<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>

# 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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