

# Hydrazinecarbodithioic acid, 2-phenyl-, methyl ester

<b>Other names:</b>	3-Phenyldithiocarbamic acid methyl ester
<b>Inchi:</b>	InChI=1S/C8H10N2S2/c1-12-8(11)10-9-7-5-3-2-4-6-7/h2-6,9H,1H3,(H,10,11)
<b>InchiKey:</b>	SZCVCDOFDCMDRN-UHFFFAOYSA-N
<b>Formula:</b>	C8H10N2S2
<b>SMILES:</b>	CSC(=S)NNc1ccccc1
<b>Mol. weight [g/mol]:</b>	198.31
<b>CAS:</b>	50878-38-1

## Physical Properties

Property code	Value	Unit	Source
gf	457.85	kJ/mol	Joback Method
hf	323.39	kJ/mol	Joback Method
hfus	29.45	kJ/mol	Joback Method
hvap	62.10	kJ/mol	Joback Method
ie	8.47	eV	NIST Webbook
log10ws	-3.31		Crippen Method
logp	2.251		Crippen Method
mcvol	148.180	ml/mol	McGowan Method
pc	4328.25	kPa	Joback Method
tb	648.28	K	Joback Method
tc	906.30	K	Joback Method
tf	380.33	K	Joback Method
vc	0.535	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	338.34	J/mol×K	648.28	Joback Method
cpg	349.89	J/mol×K	691.28	Joback Method
cpg	360.42	J/mol×K	734.29	Joback Method
cpg	370.02	J/mol×K	777.29	Joback Method
cpg	378.80	J/mol×K	820.30	Joback Method
cpg	386.86	J/mol×K	863.30	Joback Method
cpg	394.29	J/mol×K	906.30	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=C50878381&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C50878381&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>

# 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>ie:</b>	Ionization energy
<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>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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