

# N,N-Diethylthiobenzamide

<b>Inchi:</b>	InChI=1S/C11H15NS/c1-3-12(4-2)11(13)10-8-6-5-7-9-10/h5-9H,3-4H2,1-2H3
<b>InchiKey:</b>	BLKHEHXBEXPSAR-UHFFFAOYSA-N
<b>Formula:</b>	C11H15NS
<b>SMILES:</b>	CCN(CC)C(=S)c1ccccc1
<b>Mol. weight [g/mol]:</b>	193.31
<b>CAS:</b>	18775-06-9

## Physical Properties

Property code	Value	Unit	Source
chs	-7064.00 ± 1.50	kJ/mol	NIST Webbook
gf	381.99	kJ/mol	Joback Method
hf	81.10 ± 3.80	kJ/mol	NIST Webbook
hfs	-10.30 ± 2.10	kJ/mol	NIST Webbook
hfus	25.91	kJ/mol	Joback Method
hsub	91.40 ± 3.20	kJ/mol	NIST Webbook
hvap	51.13	kJ/mol	Joback Method
log10ws	-3.05		Crippen Method
logp	2.704		Crippen Method
mcvol	164.120	ml/mol	McGowan Method
pc	2912.39	kPa	Joback Method
tb	560.24	K	Joback Method
tc	784.70	K	Joback Method
tf	306.89	K	Joback Method
vc	0.598	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	372.68	J/mol×K	560.24	Joback Method
cpg	388.22	J/mol×K	597.65	Joback Method
cpg	402.61	J/mol×K	635.06	Joback Method
cpg	415.94	J/mol×K	672.47	Joback Method
cpg	428.30	J/mol×K	709.88	Joback Method
cpg	439.78	J/mol×K	747.29	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C18775069&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C18775069&amp;Units=SI</a>

## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<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>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hsub:</b>	Enthalpy of sublimation 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>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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