

# S-tert-Butyl-N,N-diethyldithiocarbamate

<b>Inchi:</b>	InChI=1S/C9H19NS2/c1-6-10(7-2)8(11)12-9(3,4)5/h6-7H2,1-5H3
<b>InchiKey:</b>	QKUPZECCOOWFNO-UHFFFAOYSA-N
<b>Formula:</b>	C9H19NS2
<b>SMILES:</b>	CCN(CC)C(=S)SC(C)(C)C
<b>Mol. weight [g/mol]:</b>	205.38

## Physical Properties

Property code	Value	Unit	Source
gf	288.70	kJ/mol	Joback Method
hf	18.06	kJ/mol	Joback Method
hfus	23.41	kJ/mol	Joback Method
hvap	49.92	kJ/mol	Joback Method
log10ws	-3.50		Crippen Method
logp	3.145		Crippen Method
mcvol	176.050	ml/mol	McGowan Method
pc	2613.74	kPa	Joback Method
rinpol	1499.00		NIST Webbook
rinpol	1499.00		NIST Webbook
tb	553.35	K	Joback Method
tc	771.20	K	Joback Method
tf	294.75	K	Joback Method
vc	0.636	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	407.32	J/mol×K	553.35	Joback Method
cpg	423.14	J/mol×K	589.66	Joback Method
cpg	437.86	J/mol×K	625.97	Joback Method
cpg	451.55	J/mol×K	662.27	Joback Method
cpg	464.30	J/mol×K	698.58	Joback Method
cpg	476.19	J/mol×K	734.89	Joback Method
cpg	487.30	J/mol×K	771.20	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R122275&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R122275&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>
<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>hvpap:</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>rinppl:</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

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