

Hydrazinecarbodithioic acid, methyl ester

Other names:	Carbazic acid, dithio-, methyl ester Dithiocarbazic acid methyl ester Methyl dithiocarbazate Methyl hydrazinecarbodithioate S-Methyl dithiocarbazate
Inchi:	InChI=1S/C2H6N2S2/c1-6-2(5)4-3/h3H2,1H3,(H,4,5)
InchiKey:	ILAXBOIRSPXAMM-UHFFFAOYSA-N
Formula:	C2H6N2S2
SMILES:	CSC(S)=NN
Mol. weight [g/mol]:	122.21
CAS:	5397-03-5

Physical Properties

Property code	Value	Unit	Source
hf	101.96	kJ/mol	Joback Method
hvap	47.64	kJ/mol	Joback Method
log10ws	-1.19		Crippen Method
logp	0.509		Crippen Method
mvol	87.400	ml/mol	McGowan Method
pc	5312.41	kPa	Joback Method
tb	525.89	K	Joback Method
tc	792.93	K	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5397035&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

hf:	Enthalpy of formation at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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