

# 3H-1,2-Dithiole-3-thione, 5-phenyl-

**Inchi:** InChI=1S/C9H6S3/c10-9-6-8(11-12-9)7-4-2-1-3-5-7/h1-6H  
**InchiKey:** NYJHOCZVKHRRLG-UHFFFAOYSA-N  
**Formula:** C9H6S3  
**SMILES:** S=c1cc(-c2ccccc2)ss1  
**Mol. weight [g/mol]:** 210.34  
**CAS:** 3445-76-9

## Physical Properties

Property code	Value	Unit	Source
chs	-6392.00 ± 10.00	kJ/mol	NIST Webbook
hf	310.00	kJ/mol	NIST Webbook
hfs	187.00 ± 10.00	kJ/mol	NIST Webbook
hsub	123.30	kJ/mol	NIST Webbook
hsub	123.00	kJ/mol	NIST Webbook
hsub	123.30 ± 0.40	kJ/mol	NIST Webbook
ie	7.80	eV	NIST Webbook
ie	8.11	eV	NIST Webbook
log10ws	-4.44		Crippen Method
logp	4.206		Crippen Method
mcvol	143.500	ml/mol	McGowan Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	26.27	kJ/mol	398.00	NIST Webbook
hsubt	117.40 ± 0.40	kJ/mol	368.00	NIST Webbook

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C3445769&Units=SI>

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hsub:</b>	Enthalpy of sublimation at standard conditions
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<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

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