

# 4-CH3S-C6H4-CCH

<b>Inchi:</b>	InChI=1S/C9H8S/c1-3-8-4-6-9(10-2)7-5-8/h1,4-7H,2H3
<b>InchiKey:</b>	LLDBWBLRNOTXLL-UHFFFAOYSA-N
<b>Formula:</b>	C9H8S
<b>SMILES:</b>	C#Cc1ccc(SC)cc1
<b>Mol. weight [g/mol]:</b>	148.22
<b>CAS:</b>	56041-85-1

## Physical Properties

Property code	Value	Unit	Source
affp	886.60	kJ/mol	NIST Webbook
basg	854.10	kJ/mol	NIST Webbook
gf	383.87	kJ/mol	Joback Method
hf	329.74	kJ/mol	Joback Method
hfus	19.82	kJ/mol	Joback Method
hvap	45.24	kJ/mol	Joback Method
log10ws	-2.91		Crippen Method
logp	2.390		Crippen Method
mcvol	121.660	ml/mol	McGowan Method
pc	3901.37	kPa	Joback Method
tb	495.88	K	Joback Method
tc	746.36	K	Joback Method
tf	311.50	K	Joback Method
vc	0.448	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	232.18	J/mol×K	495.88	Joback Method
cpg	244.38	J/mol×K	537.63	Joback Method
cpg	255.73	J/mol×K	579.37	Joback Method
cpg	266.26	J/mol×K	621.12	Joback Method
cpg	276.02	J/mol×K	662.87	Joback Method
cpg	285.03	J/mol×K	704.62	Joback Method
cpg	293.35	J/mol×K	746.36	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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=C56041851&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C56041851&amp;Units=SI</a>

# Legend

<b>affp:</b>	Proton affinity
<b>basg:</b>	Gas basicity
<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>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

Latest version available from:

<https://www.chemeo.com/cid/41-108-6/4-CH3S-C6H4-CCH.pdf>

Generated by Cheméo on 2024-04-27 15:50:48.351124517 +0000 UTC m=+16522297.271701829.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.