

# Iodomethyl methyl sulfide

**Inchi:** InChI=1S/C2H5IS/c1-4-2-3/h2H2,1H3  
**InchiKey:** LXXKITJEFGLJNW-UHFFFAOYSA-N  
**Formula:** C2H5IS  
**SMILES:** CSCI  
**Mol. weight [g/mol]:** 188.03  
**CAS:** 43034-68-0

## Physical Properties

Property code	Value	Unit	Source
gf	57.20	kJ/mol	Joback Method
hf	27.00 ± 6.30	kJ/mol	NIST Webbook
hfus	9.47	kJ/mol	Joback Method
hvap	36.24	kJ/mol	Joback Method
log10ws	-1.99		Crippen Method
logp	1.742		Crippen Method
mcvol	81.210	ml/mol	McGowan Method
pc	4994.44	kPa	Joback Method
tb	407.08	K	Joback Method
tc	644.91	K	Joback Method
tf	204.76	K	Joback Method
vc	0.289	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	105.62	J/molxK	407.08	Joback Method
cpg	110.90	J/molxK	446.72	Joback Method
cpg	115.88	J/molxK	486.36	Joback Method
cpg	120.58	J/molxK	526.00	Joback Method
cpg	125.01	J/molxK	565.63	Joback Method
cpg	129.17	J/molxK	605.27	Joback Method
cpg	133.08	J/molxK	644.91	Joback Method

# Sources

<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=C43034680&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C43034680&amp;Units=SI</a>
<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>

# 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>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>mccvol:</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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