

# Methyl (2,2-dimethylpropyl) sulfide

<b>Other names:</b>	Propane, 2,2-dimethyl-1-(methylthio)-
<b>Inchi:</b>	InChI=1S/C6H14S/c1-6(2,3)5-7-4/h5H2,1-4H3
<b>InchiKey:</b>	YUFAJXXIXSYTMS-UHFFFAOYSA-N
<b>Formula:</b>	C6H14S
<b>SMILES:</b>	CSCC(C)(C)C
<b>Mol. weight [g/mol]:</b>	118.24
<b>CAS:</b>	6079-57-8

## Physical Properties

Property code	Value	Unit	Source
gf	35.60	kJ/mol	Joback Method
hf	-134.05	kJ/mol	Joback Method
hfus	8.01	kJ/mol	Joback Method
hvap	34.47	kJ/mol	Joback Method
ie	8.46 ± 0.05	eV	NIST Webbook
log10ws	-1.98		Crippen Method
logp	2.396		Crippen Method
mcvol	111.750	ml/mol	McGowan Method
pc	3235.66	kPa	Joback Method
rinpola	823.00		NIST Webbook
tb	402.23	K	Joback Method
tc	604.13	K	Joback Method
tf	194.20	K	Joback Method
vc	0.414	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	208.29	J/mol×K	402.23	Joback Method
cpg	221.25	J/mol×K	435.88	Joback Method
cpg	233.54	J/mol×K	469.53	Joback Method
cpg	245.18	J/mol×K	503.18	Joback Method
cpg	256.20	J/mol×K	536.83	Joback Method
cpg	266.61	J/mol×K	570.48	Joback Method

## Sources

<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=C6079578&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6079578&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

## 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>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
<b>pc:</b>	Critical Pressure
<b>rinpola:</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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