

# 3-Methyl-3-sulfanylbutyl Octanoate

<b>Inchi:</b>	InChI=1S/C13H26O2S/c1-4-5-6-7-8-9-12(14)15-11-10-13(2,3)16/h16H,4-11H2,1-3H3
<b>InchiKey:</b>	XARZJEWJXORBQZ-UHFFFAOYSA-N
<b>Formula:</b>	C13H26O2S
<b>SMILES:</b>	CCCCCCCC(=O)OCCC(C)(C)S
<b>Mol. weight [g/mol]:</b>	246.41

## Physical Properties

Property code	Value	Unit	Source
gf	-143.11	kJ/mol	Joback Method
hf	-526.72	kJ/mol	Joback Method
hfus	28.84	kJ/mol	Joback Method
hvap	59.13	kJ/mol	Joback Method
log10ws	-4.31		Crippen Method
logp	3.989		Crippen Method
mcvol	217.820	ml/mol	McGowan Method
pc	1830.98	kPa	Joback Method
rinpol	1678.00		NIST Webbook
ripol	2130.00		NIST Webbook
ripol	2130.00		NIST Webbook
tb	632.76	K	Joback Method
tc	825.57	K	Joback Method
tf	347.31	K	Joback Method
vc	0.831	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	577.78	J/molxK	632.76	Joback Method
cpg	594.78	J/molxK	664.90	Joback Method
cpg	610.87	J/molxK	697.03	Joback Method
cpg	626.10	J/molxK	729.17	Joback Method
cpg	640.49	J/molxK	761.30	Joback Method
cpg	654.09	J/molxK	793.44	Joback Method
cpg	666.90	J/molxK	825.57	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=R519614&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R519614&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>
<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>h vap:</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>r in pol:</b>	Non-polar retention indices
<b>r ipol:</b>	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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