

# 3-Methyl-3-sulfanylbutyl Decanoate

<b>Inchi:</b>	InChI=1S/C15H30O2S/c1-4-5-6-7-8-9-10-11-14(16)17-13-12-15(2,3)18/h18H,4-13H2,1-3
<b>InchiKey:</b>	OYXFZHVGAWREDG-UHFFFAOYSA-N
<b>Formula:</b>	C15H30O2S
<b>SMILES:</b>	CCCCCCCCC(=O)OCCC(C)(C)S
<b>Mol. weight [g/mol]:</b>	274.46

## Physical Properties

Property code	Value	Unit	Source
gf	-126.27	kJ/mol	Joback Method
hf	-568.00	kJ/mol	Joback Method
hfus	34.02	kJ/mol	Joback Method
hvap	63.58	kJ/mol	Joback Method
log10ws	-5.15		Crippen Method
logp	4.769		Crippen Method
mcvol	246.000	ml/mol	McGowan Method
pc	1563.52	kPa	Joback Method
rinpol	1876.00		NIST Webbook
rinpol	1876.00		NIST Webbook
ripol	2342.00		NIST Webbook
tb	678.52	K	Joback Method
tc	867.69	K	Joback Method
tf	369.85	K	Joback Method
vc	0.943	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	686.15	J/molxK	678.52	Joback Method
cpg	703.90	J/molxK	710.05	Joback Method
cpg	720.71	J/molxK	741.58	Joback Method
cpg	736.62	J/molxK	773.10	Joback Method
cpg	751.66	J/molxK	804.63	Joback Method
cpg	765.86	J/molxK	836.16	Joback Method
cpg	779.27	J/molxK	867.69	Joback Method

# Sources

<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=R519565&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R519565&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>

# 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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</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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