

# Octanamide, N-(2-mercaptoethyl)-

<b>Other names:</b>	N-(2-Mercaptoethyl) octanamide
<b>Inchi:</b>	InChI=1S/C10H21NOS/c1-2-3-4-5-6-7-10(12)11-8-9-13/h13H,2-9H2,1H3,(H,11,12)
<b>InchiKey:</b>	JLZORHOCSVVPHT-UHFFFAOYSA-N
<b>Formula:</b>	C10H21NOS
<b>SMILES:</b>	CCCCCCCC(=O)NCCS
<b>Mol. weight [g/mol]:</b>	203.34
<b>CAS:</b>	56630-30-9

## Physical Properties

Property code	Value	Unit	Source
gf	23.18	kJ/mol	Joback Method
hf	-270.36	kJ/mol	Joback Method
hfus	32.40	kJ/mol	Joback Method
hvap	57.77	kJ/mol	Joback Method
log10ws	-3.05		Crippen Method
logp	2.393		Crippen Method
mcvol	179.660	ml/mol	McGowan Method
pc	2407.64	kPa	Joback Method
tb	595.10	K	Joback Method
tc	787.17	K	Joback Method
tf	341.51	K	Joback Method
vc	0.691	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	448.85	J/molxK	595.10	Joback Method
cpg	463.52	J/molxK	627.11	Joback Method
cpg	477.46	J/molxK	659.12	Joback Method
cpg	490.69	J/molxK	691.14	Joback Method
cpg	503.24	J/molxK	723.15	Joback Method
cpg	515.13	J/molxK	755.16	Joback Method
cpg	526.37	J/molxK	787.17	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=C56630309&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C56630309&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>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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