

# DL-Homocysteine, S-ethyl-

<b>Other names:</b>	Butyric acid, 2-amino-4-(ethylthio)-, DL- (./-.)-Ethionine Aethionin CN 8676 DL-Ethionine DL-2-Amino-4-(ethylthio)butyric acid Ethionin Ethionine NSC-751 Butyric acid, DL-2-amino-4-(ethylthio)- Ethionine, DL- U-1434 2-Amino-4-(ethylthio)butyric acid Homocysteine, S-ethyl- S-Ethyl-DL-homocysteine
<b>Inchi:</b>	InChI=1S/C6H13NO2S/c1-2-10-4-3-5(7)6(8)9/h5H,2-4,7H2,1H3,(H,8,9)
<b>InchiKey:</b>	GGLZPLKKBSSKXCX-UHFFFAOYSA-N
<b>Formula:</b>	C6H13NO2S
<b>SMILES:</b>	CCSCCC(N)C(=O)O
<b>Mol. weight [g/mol]:</b>	163.24
<b>CAS:</b>	67-21-0

## Physical Properties

Property code	Value	Unit	Source
gf	-168.97	kJ/mol	Joback Method
hf	-361.60	kJ/mol	Joback Method
hfus	22.79	kJ/mol	Joback Method
hvap	69.44	kJ/mol	Joback Method
log10ws	-0.86		Crippen Method
logp	0.542		Crippen Method
mcvol	129.170	ml/mol	McGowan Method
pc	4124.99	kPa	Joback Method
tb	623.60	K	Joback Method
tc	825.09	K	Joback Method
tf	370.79	K	Joback Method
vc	0.473	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	320.77	J/mol×K	623.60	Joback Method
cpg	330.35	J/mol×K	657.18	Joback Method
cpg	339.40	J/mol×K	690.76	Joback Method
cpg	347.93	J/mol×K	724.34	Joback Method
cpg	355.96	J/mol×K	757.93	Joback Method
cpg	363.48	J/mol×K	791.51	Joback Method
cpg	370.52	J/mol×K	825.09	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=C67210&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C67210&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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

Latest version available from:

<https://www.cheméo.com/cid/28-083-9/DL-Homocysteine-S-ethyl.pdf>

Generated by Cheméo on 2024-04-28 20:07:20.861452598 +0000 UTC m=+16624089.782029910.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.