

# Ethanethiol, 2-(1-adamantyl)amino-, hydrogen sulfate

Other names:

2-(1-Adamantyl)aminoethanethiol hydrogen sulfate

S-2-[1-Adamantylamino]ethyl thiosulfuric acid

2-(Adamantylamino)ethanethiol, S-hydrogen sulfate

Inchi:

InChI=1S/C12H21NO3S2/c14-18(15,16)17-2-1-13-12-6-9-3-10(7-12)5-11(4-9)8-12/h9-11

InchiKey:

YXDYLGVKBVJRMA-UHFFFAOYSA-N

Formula:

C12H21NO3S2

SMILES:

O=S(=O)(O)SCCNC12CC3CC(CC(C3)C1)C2

Mol. weight [g/mol]:

291.43

CAS:

37018-31-8

## Physical Properties

Property code	Value	Unit	Source
gf	-275.74	kJ/mol	Joback Method
hf	-594.11	kJ/mol	Joback Method
hfus	38.61	kJ/mol	Joback Method
hvap	89.32	kJ/mol	Joback Method
log10ws	-3.13		Crippen Method
logp	2.081		Crippen Method
mcvol	207.650	ml/mol	McGowan Method
pc	3602.88	kPa	Joback Method
tb	752.93	K	Joback Method
tc	963.44	K	Joback Method
tf	481.40	K	Joback Method
vc	0.801	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	643.22	J/molxK	752.93	Joback Method
cpg	658.92	J/molxK	788.02	Joback Method
cpg	673.94	J/molxK	823.10	Joback Method
cpg	688.42	J/molxK	858.19	Joback Method
cpg	702.54	J/molxK	893.27	Joback Method
cpg	716.44	J/molxK	928.36	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C37018318&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C37018318&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>mccvol:</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.chemeo.com/cid/13-068-2/Ethanethiol-2-1-adamantyl-amino-hydrogen-sulfate.pdf>

Generated by Cheméo on 2024-04-29 17:15:16.26046547 +0000 UTC m=+16700165.181042791.

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