

3-methyl-2,4-dithiahexane

Other names:	1-(ethylthio)-1-(methylthio) -ethane
Inchi:	InChI=1S/C5H12S2/c1-4-7-5(2)6-3/h5H,4H2,1-3H3
InchiKey:	RLVVEDPRNSYGPR-UHFFFAOYSA-N
Formula:	C5H12S2
SMILES:	CCSC(C)SC
Mol. weight [g/mol]:	136.28

Physical Properties

Property code	Value	Unit	Source
gf	55.02	kJ/mol	Joback Method
hf	-68.07	kJ/mol	Joback Method
hfus	13.44	kJ/mol	Joback Method
hvap	39.97	kJ/mol	Joback Method
log10ws	-2.29		Crippen Method
logp	2.449		Crippen Method
mcvol	114.010	ml/mol	McGowan Method
pc	3646.53	kPa	Joback Method
rinpol	1021.00		NIST Webbook
rinpol	1021.00		NIST Webbook
ripol	1344.00		NIST Webbook
ripol	1344.00		NIST Webbook
tb	450.92	K	Joback Method
tc	671.44	K	Joback Method
tf	199.91	K	Joback Method
vc	0.417	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	213.94	J/mol×K	450.92	Joback Method
cpg	225.27	J/mol×K	487.67	Joback Method
cpg	236.10	J/mol×K	524.43	Joback Method
cpg	246.44	J/mol×K	561.18	Joback Method
cpg	256.29	J/mol×K	597.94	Joback Method

cpg	265.64	J/mol×K	634.69	Joback Method
cpg	274.48	J/mol×K	671.44	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R156679&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvac:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/80-870-7/3-methyl-2-4-dithiahexane.pdf>

Generated by Cheméo on 2025-12-05 10:10:52.843829207 +0000 UTC m=+4677650.373869860.

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