

3-methyl-4,6-dithiaoctane

Inchi:	InChI=1S/C7H16S2/c1-4-7(3)9-6-8-5-2/h7H,4-6H2,1-3H3
InchiKey:	BGMVIMPOLWZJBL-UHFFFAOYSA-N
Formula:	C7H16S2
SMILES:	CCSCSC(C)CC
Mol. weight [g/mol]:	164.33

Physical Properties

Property code	Value	Unit	Source
gf	71.86	kJ/mol	Joback Method
hf	-109.35	kJ/mol	Joback Method
hfus	18.62	kJ/mol	Joback Method
hvap	44.42	kJ/mol	Joback Method
log10ws	-3.13		Crippen Method
logp	3.229		Crippen Method
mcvol	142.190	ml/mol	McGowan Method
pc	2928.17	kPa	Joback Method
rinpol	1191.00		NIST Webbook
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tb	496.68	K	Joback Method
tc	710.61	K	Joback Method
tf	222.45	K	Joback Method
vc	0.529	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	296.60	J/mol×K	496.68	Joback Method
cpg	310.45	J/mol×K	532.33	Joback Method
cpg	323.66	J/mol×K	567.99	Joback Method
cpg	336.24	J/mol×K	603.64	Joback Method
cpg	348.17	J/mol×K	639.30	Joback Method
cpg	359.48	J/mol×K	674.95	Joback Method
cpg	370.16	J/mol×K	710.61	Joback Method

Sources

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=R156733&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

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
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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