

1,2,4,5-Tetrathiane, 3,6-diethyl-, trans-

Inchi:	InChI=1S/C6H12S4/c1-3-5-7-9-6(4-2)10-8-5/h5-6H,3-4H2,1-2H3/t5-,6-
InchiKey:	WASBDGZBDGMWMT-IZLXSQMJSA-N
Formula:	C6H12S4
SMILES:	CCC1SSC(CC)SS1
Mol. weight [g/mol]:	212.42
CAS:	934273-77-5

Physical Properties

Property code	Value	Unit	Source
gf	175.82	kJ/mol	Joback Method
hf	47.85	kJ/mol	Joback Method
hfus	18.83	kJ/mol	Joback Method
hvap	52.32	kJ/mol	Joback Method
log10ws	-4.96		Crippen Method
logp	4.235		Crippen Method
mcvol	149.940	ml/mol	McGowan Method
pc	3690.97	kPa	Joback Method
rinpol	1613.20		NIST Webbook
rinpol	1613.20		NIST Webbook
ripol	1970.00		NIST Webbook
ripol	1970.00		NIST Webbook
tb	542.88	K	Joback Method
tc	811.52	K	Joback Method
tf	494.32	K	Joback Method
vc	0.487	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	313.29	J/molxK	542.88	Joback Method
cpg	328.74	J/molxK	587.65	Joback Method
cpg	343.12	J/molxK	632.43	Joback Method
cpg	356.47	J/molxK	677.20	Joback Method
cpg	368.82	J/molxK	721.97	Joback Method

cpg	380.23	J/mol×K	766.75	Joback Method
cpg	390.74	J/mol×K	811.52	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C934273775&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
mcvol:	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

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