

1,3,5-Dithiazine, perhydro, 4-ethyl-2,6-dimethyl, #2

Inchi:	InChI=1S/C7H15NS2/c1-4-7-8-5(2)9-6(3)10-7/h5-8H,4H2,1-3H3
InchiKey:	ZORZRADCTZBZSE-UHFFFAOYSA-N
Formula:	C7H15NS2
SMILES:	CCC1NC(C)SC(C)S1
Mol. weight [g/mol]:	177.33

Physical Properties

Property code	Value	Unit	Source
gf	184.52	kJ/mol	Joback Method
hf	-45.84	kJ/mol	Joback Method
hfus	24.77	kJ/mol	Joback Method
hvap	49.37	kJ/mol	Joback Method
log10ws	-3.43		Crippen Method
logp	2.484		Crippen Method
mcvol	141.310	ml/mol	McGowan Method
pc	3310.55	kPa	Joback Method
rinpol	1273.00		NIST Webbook
rinpol	1273.00		NIST Webbook
tb	513.98	K	Joback Method
tc	754.24	K	Joback Method
tf	439.48	K	Joback Method
vc	0.487	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	311.63	J/mol×K	513.98	Joback Method
cpg	329.14	J/mol×K	554.02	Joback Method
cpg	345.73	J/mol×K	594.07	Joback Method
cpg	361.40	J/mol×K	634.11	Joback Method
cpg	376.16	J/mol×K	674.15	Joback Method
cpg	390.00	J/mol×K	714.20	Joback Method
cpg	402.94	J/mol×K	754.24	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R297582&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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