

Cyclohexene, 1-methyl-4-[1-methyl-1,2-bis-(methylthio)ethyl]

Inchi:	InChI=1S/C12H22S2/c1-10-5-7-11(8-6-10)12(2,14-4)9-13-3/h5,11H,6-9H2,1-4H3
InchiKey:	ITXNNOQCAWZFMP-UHFFFAOYSA-N
Formula:	C12H22S2
SMILES:	CSCC(C)(SC)C1CC=C(C)CC1
Mol. weight [g/mol]:	230.43

Physical Properties

Property code	Value	Unit	Source
gf	164.02	kJ/mol	Joback Method
hf	-115.39	kJ/mol	Joback Method
hfus	20.35	kJ/mol	Joback Method
hvap	56.03	kJ/mol	Joback Method
log10ws	-4.23		Crippen Method
logp	4.218		Crippen Method
mcvol	197.480	ml/mol	McGowan Method
pc	2287.14	kPa	Joback Method
rinsol	1656.00		NIST Webbook
tb	631.98	K	Joback Method
tc	878.41	K	Joback Method
tf	316.88	K	Joback Method
vc	0.724	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	509.08	J/mol×K	631.98	Joback Method
cpg	529.56	J/mol×K	673.05	Joback Method
cpg	548.54	J/mol×K	714.12	Joback Method
cpg	566.07	J/mol×K	755.19	Joback Method
cpg	582.22	J/mol×K	796.26	Joback Method
cpg	597.04	J/mol×K	837.34	Joback Method
cpg	610.59	J/mol×K	878.41	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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=R121772&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
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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