CH2=C(CH3)-SCH3

Inchi: InChI=1S/C4H8S/c1-4(2)5-3/h1H2,2-3H3
InchiKey: ITKBWZPRAFZVNW-UHFFFAOYSA-N
Formula: C4H8S
SMILES: C=C(C)SC
Mol. weight [g/mol]: 88.17
CAS: 7594-44-7

Physical Properties

Property code	Value	Unit	Source
affp	888.60	kJ/mol	NIST Webbook
basg	859.70	kJ/mol	NIST Webbook
gf	95.21	kJ/mol	Joback Method
hf	31.62	kJ/mol	Joback Method
hfus	7.66	kJ/mol	Joback Method
hvap	30.73	kJ/mol	Joback Method
log10ws	-1.73		Crippen Method
logp	1.883		Crippen Method
mcvol	79.270	ml/mol	McGowan Method
pc	4227.54	kPa	Joback Method
tb	356.26	K	Joback Method
tc	555.87	K	Joback Method
tf	153.52	K	Joback Method
vc	0.295	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	122.33	J/mol×K	356.26	Joback Method
cpg	130.20	J/mol×K	389.53	Joback Method
cpg	137.74	J/mol×K	422.80	Joback Method
cpg	144.97	J/mol×K	456.06	Joback Method
cpg	151.88	J/mol×K	489.33	Joback Method
cpg	158.49	J/mol×K	522.60	Joback Method
cpg	164.80	J/mol×K	555.87	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=C7594447&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

affp:	Proton affinity
basg:	Gas basicity
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume