ETHENE, (METHYLSULFINYL)-

Other names: Sulfoxide, methyl vinyl
Methyl vinyl sulfoxide
Inchi: InChI=1S/C3H6OS/c1-3-5(2)4/h3H,1H2,2H3
InchiKey: UDDBCWCQRQREBI-UHFFFAOYSA-N
Formula: C3H6OS
SMILES: C=CS(C)=O
Mol. weight [g/mol]: 90.15

Physical Properties

Property code	Value	Unit	Source
hf	-51.23	kJ/mol	Cheméo Relay (1.0)
hfus	10.00	kJ/mol	Joback Method
hvap	54.13	kJ/mol	Cheméo Relay (1.0)
ie	9.02	eV	NIST Webbook
logp	0.508		Crippen Method
mcvol	71.050	ml/mol	McGowan Method
tb	460.90	K	Cheméo Relay (1.0)
tc	692.78	K	Cheméo Relay (1.0)
tf	267.27	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	103.41	J/mol×K	323.00	Joback Method
cpg	109.64	J/mol×K	353.01	Joback Method
cpg	115.67	J/mol×K	383.02	Joback Method
cpg	121.49	J/mol×K	413.03	Joback Method
cpg	127.11	J/mol×K	443.03	Joback Method
cpg	132.52	J/mol×K	473.04	Joback Method
cpg	137.73	J/mol×K	503.05	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C10258863&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point