METHANESULFONAMIDE

Other names: Methylsulfonamide
methanesulphonamide
Inchi: InChI=1S/CH5NO2S/c1-5(2,3)4/h1H3,(H2,2,3,4)
InchiKey: HNQIVZYLYMDVSB-UHFFFAOYSA-N
Formula: CH5NO2S
SMILES: CS(N)(=O)=O
Mol. weight [g/mol]: 95.12

Physical Properties

Property code	Value	Unit	Source
hf	-382.04	kJ/mol	Cheméo Relay (1.0)
hfus	14.92	kJ/mol	Joback Method
hvap	60.44	kJ/mol	Cheméo Relay (1.0)
ie	11.01	eV	Cheméo Relay (1.0)
logp	-1.095		Crippen Method
mcvol	63.020	ml/mol	McGowan Method
tb	486.15	K	Cheméo Relay (1.0)
tf	400.65	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	105.22	J/mol×K	342.59	Joback Method
cpg	110.31	J/mol×K	372.81	Joback Method
cpg	115.29	J/mol×K	403.03	Joback Method
cpg	120.13	J/mol×K	433.25	Joback Method
cpg	124.84	J/mol×K	463.47	Joback Method
cpg	129.39	J/mol×K	493.69	Joback Method
cpg	133.80	J/mol×K	523.91	Joback Method

Sources

Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3144090&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

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
tf:	Normal melting (fusion) point