Sulfanilamide, 2,5-dimethoxy-

Other names: 4-amino-2,5-dimethoxybenzenesulphonamide
Inchi: InChI=1S/C8H12N2O4S/c1-13-6-4-8(15(10,11)12)7(14-2)3-5(6)9/h3-4H,9H2,1-2H3,(H2,1
InchiKey: XUEVFQRBADJXLR-UHFFFAOYSA-N
Formula: C8H12N2O4S
SMILES: COc1cc(S(N)(=O)=O)c(OC)cc1N
Mol. weight [g/mol]: 232.26
CAS: 54179-10-1

Physical Properties

Property code	Value	Unit	Source
gf	-445.64	kJ/mol	Joback Method
hf	-656.54	kJ/mol	Joback Method
hfus	33.50	kJ/mol	Joback Method
hvap	82.40	kJ/mol	Joback Method
log10ws	-1.04		Crippen Method
logp	-0.067		Crippen Method
mcvol	159.610	ml/mol	McGowan Method
pc	4659.34	kPa	Joback Method
tb	661.74	K	Joback Method
tc	882.04	K	Joback Method
tf	493.44	K	Joback Method
vc	0.596	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	406.04	J/mol×K	661.74	Joback Method
cpg	417.83	J/mol×K	698.46	Joback Method
cpg	428.85	J/mol×K	735.17	Joback Method
cpg	439.08	J/mol×K	771.89	Joback Method
cpg	448.47	J/mol×K	808.60	Joback Method
cpg	456.99	J/mol×K	845.32	Joback Method
cpg	464.61	J/mol×K	882.04	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C54179101&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume