Benzenesulfonamide, 4-chloro-N,N-dimethyl-

Inchi: InChI=1S/C8H10ClNO2S/c1-10(2)13(11,12)8-5-3-7(9)4-6-8/h3-6H,1-2H3
InchiKey: QFNLRDMGDKMXBO-UHFFFAOYSA-N
Formula: C8H10ClNO2S
SMILES: CN(C)S(=O)(=O)c1ccc(Cl)cc1
Mol. weight [g/mol]: 219.69

Physical Properties

Property code	Value	Unit	Source
gf	-250.43	kJ/mol	Joback Method
hf	-384.95	kJ/mol	Joback Method
hfus	28.72	kJ/mol	Joback Method
hvap	61.40	kJ/mol	Joback Method
log10ws	-1.83		Crippen Method
logp	1.590		Crippen Method
mcvol	150.130	ml/mol	McGowan Method
pc	4140.93	kPa	Joback Method
rinpol	1699.00		NIST Webbook
rinpol	1699.00		NIST Webbook
tb	511.75	K	Joback Method
tc	719.58	K	Joback Method
tf	319.81	K	Joback Method
vc	0.569	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	308.68	J/mol×K	511.75	Joback Method
cpg	321.77	J/mol×K	546.39	Joback Method
cpg	334.06	J/mol×K	581.03	Joback Method
cpg	345.58	J/mol×K	615.66	Joback Method
cpg	356.33	J/mol×K	650.30	Joback Method
cpg	366.34	J/mol×K	684.94	Joback Method
cpg	375.62	J/mol×K	719.58	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U374378&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume