N^l,n^l-diethylsulfanilamide

Other names: N
Inchi: InChI=1S/C10H16N2O2S/c1-3-12(4-2)15(13,14)10-7-5-9(11)6-8-10/h5-8H,3-4,11H2,1-2H
InchiKey: LTFVELCIFWEGGA-UHFFFAOYSA-N
Formula: C10H16N2O2S
SMILES: CCN(CC)S(=O)(=O)c1ccc(N)cc1
Mol. weight [g/mol]: 228.31
CAS: 1709-39-3

Physical Properties

Property code	Value	Unit	Source
gf	-155.21	kJ/mol	Joback Method
hf	-376.70	kJ/mol	Joback Method
hfus	34.90	kJ/mol	Joback Method
hvap	72.11	kJ/mol	Joback Method
log10ws	-1.62		Crippen Method
logp	1.299		Crippen Method
mcvol	176.050	ml/mol	McGowan Method
pc	3664.21	kPa	Joback Method
tb	592.61	K	Joback Method
tc	798.60	K	Joback Method
tf	395.69	K	Joback Method
vc	0.660	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	434.11	J/mol×K	592.61	Joback Method
cpg	449.16	J/mol×K	626.94	Joback Method
cpg	463.27	J/mol×K	661.27	Joback Method
cpg	476.46	J/mol×K	695.61	Joback Method
cpg	488.76	J/mol×K	729.94	Joback Method
cpg	500.18	J/mol×K	764.27	Joback Method
cpg	510.76	J/mol×K	798.60	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=C1709393&Units=SI
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
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

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