Aniline, n,n-dimethyl-p-phenylsulfonamido-

Inchi: InChI=1S/C14H16N2O2S/c1-16(2)13-10-8-12(9-11-13)15-19(17,18)14-6-4-3-5-7-14/h3-1
InchiKey: PPXYHLMMQZWZCI-UHFFFAOYSA-N
Formula: C14H16N2O2S
SMILES: CN(C)c1ccc(NS(=O)(=O)c2ccccc2)cc1
Mol. weight [g/mol]: 276.35
CAS: 19766-54-2

Physical Properties

Property code	Value	Unit	Source
gf	13.82	kJ/mol	Joback Method
hf	-203.05	kJ/mol	Joback Method
hfus	39.21	kJ/mol	Joback Method
hvap	79.09	kJ/mol	Joback Method
log10ws	-2.88		Crippen Method
logp	2.553		Crippen Method
mcvol	208.650	ml/mol	McGowan Method
pc	3269.04	kPa	Joback Method
tb	688.45	K	Joback Method
tc	913.12	K	Joback Method
tf	436.59	K	Joback Method
vc	0.782	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	548.99	J/mol×K	688.45	Joback Method
cpg	564.99	J/mol×K	725.89	Joback Method
cpg	579.69	J/mol×K	763.34	Joback Method
cpg	593.13	J/mol×K	800.78	Joback Method
cpg	605.37	J/mol×K	838.23	Joback Method
cpg	616.45	J/mol×K	875.67	Joback Method
cpg	626.44	J/mol×K	913.12	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C19766542&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