p,p'-Diaminodiphenyl sulfoxide

Other names:	4,4'-Diaminodiphenylsulphoxide
	p,p'-Sulfinyldianiline
	Aniline, 4,4'-sulfinyldi-
	Benzenamine, 4,4'-sulfinylbis-
	Bis(p-aminophenyl) sulfoxide
	Di(p-aminophenyl) sulfoxide
	DDSO
	Medapsol
	4,4'-Diaminodiphenyl sulfoxide
	4,4'-Diaminophenyl sulfoxide
	4,4'-Sulfinyldianiline
	p,p'-Diaminodiphenyl sulphoxide
	Aniline, p,p'-sulfinyldi-
	NSC 6090
Inchi:	InChI=1S/C12H12N2OS/c13-9-1-5-11(6-2-9)16(15)12-7-3-10(14)4-8-12/h1-8H,13-14H2
InchiKey:	MITHMOYLTXMLRB-UHFFFAOYSA-N
Formula:	C12H12N2OS
SMILES:	Nc1ccc(S(=O)c2ccc(N)cc2)cc1
Mol. weight [g/mol]:	232.30
CAS:	119-59-5

Physical Properties

Property code	Value	Unit	Source
gf	170.91	kJ/mol	Joback Method
hf	20.95	kJ/mol	Joback Method
hfus	32.29	kJ/mol	Joback Method
hvap	82.19	kJ/mol	Joback Method
log10ws	-1.91		Crippen Method
logp	2.018		Crippen Method
mcvol	174.600	ml/mol	McGowan Method
pc	4227.54	kPa	Joback Method
tb	740.62	K	Joback Method
tc	1006.77	K	Joback Method
tf	505.88	K	Joback Method
vc	0.639	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	456.49	J/mol×K	740.62	Joback Method
cpg	469.52	J/mol×K	784.98	Joback Method
cpg	481.24	J/mol×K	829.34	Joback Method
cpg	491.71	J/mol×K	873.70	Joback Method
cpg	500.98	J/mol×K	918.05	Joback Method
cpg	509.10	J/mol×K	962.41	Joback Method
cpg	516.15	J/mol×K	1006.77	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C119595&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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume