Bis(o-aminophenyl) disulfide

Other names:	Benzenamine, 2,2'-dithiobis-
	Aniline, 2,2'-dithiodi-
	O,O'-Diaminodiphenyl disulfide
	Bis(2-aminophenyl) disulfide
	Disulfide, bis(2-aminophenyl)
	Intramine
	2,2'-Diaminodiphenyl disulfide
	2,2'-Dithiodianiline
	2-Aminophenyl disulfide
	O,O-Dithio-bis(aniline)
	Aniline, 2,2'-dithiobis-
	Disulfide, bis(o-aminophenyl)
	Disulfide, 1,1'-bis(2-aminophenyl)
	USAF AB-315
	2,2'-Dithiobis[aniline]
	NSC 54509
	NSC 677450
	NSC 8186
Inchi:	InChI=1S/C12H12N2S2/c13-9-5-1-3-7-11(9)15-16-12-8-4-2-6-10(12)14/h1-8H,13-14H2
InchiKey:	YYYOQURZQWIILK-UHFFFAOYSA-N
Formula:	C12H12N2S2
SMILES:	Nc1ccccc1SSc1ccccc1N
Mol. weight [g/mol]:	248.37
CAS:	1141-88-4

Physical Properties

Property code	Value	Unit	Source
gf	454.86	kJ/mol	Joback Method
hf	310.43	kJ/mol	Joback Method
hfus	32.79	kJ/mol	Joback Method
hvap	83.10	kJ/mol	Joback Method
log10ws	-4.03		Crippen Method
logp	3.650		Crippen Method
mcvol	185.080	ml/mol	McGowan Method
pc	3955.54	kPa	Joback Method
tb	819.90	K	Joback Method
tc	1116.63	K	Joback Method

tf	538.20	K	Joback Method
vc	0.657	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	484.05	J/mol×K	819.90	Joback Method
cpg	495.95	J/mol×K	869.35	Joback Method
cpg	506.36	J/mol×K	918.81	Joback Method
cpg	515.35	J/mol×K	968.26	Joback Method
cpg	523.00	J/mol×K	1017.72	Joback Method
cpg	529.38	J/mol×K	1067.17	Joback Method
cpg	534.57	J/mol×K	1116.63	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1141884&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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