1,2-Bis(p-chlorophenyl sulfonyl) hydrazine

Inchi: InChI=1S/C12H10Cl2N2O4S2/c13-9-1-5-11(6-2-9)21(17,18)15-16-22(19,20)12-7-3-10(14
InchiKey: VFJNEKHNELULAJ-UHFFFAOYSA-N
Formula: C12H10Cl2N2O4S2
SMILES: O=S(=O)(NNS(=O)(=O)c1ccc(Cl)cc1)c1ccc(Cl)cc1
Mol. weight [g/mol]: 381.25
CAS: 91962-00-4

Physical Properties

Property code	Value	Unit	Source
gf	-526.44	kJ/mol	Joback Method
hf	-672.13	kJ/mol	Joback Method
hfus	55.49	kJ/mol	Joback Method
hvap	107.09	kJ/mol	Joback Method
log10ws	-4.39		Crippen Method
logp	2.165		Crippen Method
mcvol	233.040	ml/mol	McGowan Method
pc	4590.15	kPa	Joback Method
tb	808.04	K	Joback Method
tc	1039.51	K	Joback Method
tf	545.16	K	Joback Method
vc	0.911	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	587.22	J/mol×K	808.04	Joback Method
cpg	597.25	J/mol×K	846.62	Joback Method
cpg	605.95	J/mol×K	885.20	Joback Method
cpg	613.32	J/mol×K	923.78	Joback Method
cpg	619.39	J/mol×K	962.36	Joback Method
cpg	624.17	J/mol×K	1000.94	Joback Method
cpg	627.68	J/mol×K	1039.51	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C91962004&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