Phenol, 2,2'-sulfinylbis[4-methyl-

Other names: 2,2'-Sulfinylbis(4-methylphenol)
2,2'-Sulfinyldi-p-cresol
Inchi: InChI=1S/C14H14O3S/c1-9-3-5-11(15)13(7-9)18(17)14-8-10(2)4-6-12(14)16/h3-8,15-16H
InchiKey: XDHQMRJPDDMKNO-UHFFFAOYSA-N
Formula: C14H14O3S
SMILES: Cc1ccc(O)c(S(=O)c2cc(C)ccc2O)c1
Mol. weight [g/mol]: 262.32
CAS: 27725-15-1

Physical Properties

Property code	Value	Unit	Source
gf	-254.39	kJ/mol	Joback Method
hf	-442.53	kJ/mol	Joback Method
hfus	38.64	kJ/mol	Joback Method
hvap	91.39	kJ/mol	Joback Method
log10ws	-2.69		Crippen Method
logp	2.881		Crippen Method
mcvol	194.560	ml/mol	McGowan Method
pc	4183.90	kPa	Joback Method
tb	802.56	K	Joback Method
tc	1060.56	K	Joback Method
tf	585.34	K	Joback Method
vc	0.625	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	537.12	J/mol×K	802.56	Joback Method
cpg	549.74	J/mol×K	845.56	Joback Method
cpg	561.74	J/mol×K	888.56	Joback Method
cpg	573.30	J/mol×K	931.56	Joback Method
cpg	584.59	J/mol×K	974.56	Joback Method
cpg	595.80	J/mol×K	1017.56	Joback Method
cpg	607.11	J/mol×K	1060.56	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C27725151&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