

Phenol, 4,4'-thiobis-

Other names:	Phenol, 4,4'-thiodi- p,p'-Dihydroxydiphenyl sulfide Bis(p-hydroxhphenyl) sulfide Bis(4-hydroxyphenyl) sulfide Thiobisphenol 4,4-Dihydroxydiphenyl sulfide 4,4-Thiodiphenol 4,4'-Dihydroxydiphenyl sulfide 4,4'-Thiobis[phenol] 4,4'-Thiodiphenol DFS Sulfide, bis(4-hydroxyphenyl) 4,4'-Dioxydiphenyl sulfide 4-(4-Hydroxyphenylthio)phenol NSC 203030
Inchi:	InChI=1S/C12H10O2S/c13-9-1-5-11(6-2-9)15-12-7-3-10(14)4-8-12/h1-8,13-14H
InchiKey:	VWGKEVWFBOUAND-UHFFFAOYSA-N
Formula:	C12H10O2S
SMILES:	Oc1ccc(Sc2ccc(O)cc2)cc1
Mol. weight [g/mol]:	218.27
CAS:	2664-63-3

Physical Properties

Property code	Value	Unit	Source
gf	-1.14	kJ/mol	Joback Method
hf	-130.70	kJ/mol	Joback Method
hfus	30.61	kJ/mol	Joback Method
hvap	79.70	kJ/mol	Joback Method
log10ws	-2.98		Crippen Method
logp	3.249		Crippen Method
mcvol	160.510	ml/mol	McGowan Method
pc	5153.45	kPa	Joback Method
tb	757.34	K	Joback Method
tc	1041.84	K	Joback Method
tf	535.68	K	Joback Method
vc	0.477	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	417.97	J/mol×K	757.34	Joback Method
cpg	429.47	J/mol×K	804.76	Joback Method
cpg	440.30	J/mol×K	852.17	Joback Method
cpg	450.75	J/mol×K	899.59	Joback Method
cpg	461.08	J/mol×K	947.01	Joback Method
cpg	471.55	J/mol×K	994.42	Joback Method
cpg	482.43	J/mol×K	1041.84	Joback Method
hfust	31.04	kJ/mol	432.90	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2664633&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
hfust:	Enthalpy of fusion at a given temperature
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

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