[1,1'-Biphenyl]-4,4'-disulfonyl dichloride

Other names:	4,4'-Biphenyldisulfonyl chloride
	p,p'-Diphenyldisulfonyl chloride
	4,4'-Biphenylylenedisulfonyl chloride
	4,4'-Disulfonylchloride biphenyl
	Biphenyl-4,4'-di-sulfonyl-chloride
	4,4'-bis(phenylsulphonyl) dichloride
Inchi:	InChI=1S/C12H8Cl2O4S2/c13-19(15,16)11-5-1-9(2-6-11)10-3-7-12(8-4-10)20(14,17)18/h
InchiKey:	OTFAWEIFBPUXOH-UHFFFAOYSA-N
Formula:	C12H8Cl2O4S2
SMILES:	O=S(=O)(Cl)c1ccc(-c2ccc(S(=O)(=O)Cl)cc2)cc1
Mol. weight [g/mol]:	351.23
CAS:	3406-84-6

Physical Properties

Property code	Value	Unit	Source
gf	-705.22	kJ/mol	Joback Method
hf	-779.07	kJ/mol	Joback Method
hfus	45.29	kJ/mol	Joback Method
hvap	94.22	kJ/mol	Joback Method
log10ws	-4.91		Crippen Method
logp	3.209		Crippen Method
mcvol	213.080	ml/mol	McGowan Method
pc	4432.62	kPa	Joback Method
tb	707.70	K	Joback Method
tc	943.10	K	Joback Method
tf	439.84	K	Joback Method
vc	0.842	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	490.57	J/mol×K	707.70	Joback Method
cpg	502.63	J/mol×K	746.93	Joback Method
cpg	513.42	J/mol×K	786.17	Joback Method

cpg	522.94	J/mol×K	825.40	Joback Method
cpg	531.22	J/mol×K	864.63	Joback Method
cpg	538.25	J/mol×K	903.87	Joback Method
cpg	544.05	J/mol×K	943.10	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3406846&Units=SI

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