

# 1,2-Bis(phenylsulfonyl)ethane

<b>Other names:</b>	Benzene, 1,1'-[1,2-ethanediy]bis(sulfonyl)]bis-1,2-Bis(phenylsulphonyl)ethane 1,1'-[ethane-1,2-diylbis(sulphonyl)]bisbenzene
<b>Inchi:</b>	InChI=1S/C14H14O4S2/c15-19(16,13-7-3-1-4-8-13)11-12-20(17,18)14-9-5-2-6-10-14/h1
<b>InchiKey:</b>	ULELOBVZIKJPAC-UHFFFAOYSA-N
<b>Formula:</b>	C14H14O4S2
<b>SMILES:</b>	O=S(=O)(CCS(=O)(=O)c1ccccc1)c1ccccc1
<b>Mol. weight [g/mol]:</b>	310.39
<b>CAS:</b>	599-94-0

## Physical Properties

Property code	Value	Unit	Source
gf	-645.26	kJ/mol	Joback Method
hf	-765.93	kJ/mol	Joback Method
hfus	42.85	kJ/mol	Joback Method
hvap	88.58	kJ/mol	Joback Method
log10ws	-2.51		Crippen Method
logp	1.934		Crippen Method
mcvol	216.780	ml/mol	McGowan Method
pc	3955.54	kPa	Joback Method
tb	668.64	K	Joback Method
tc	888.27	K	Joback Method
tf	377.50	K	Joback Method
vc	0.856	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	544.89	J/mol×K	668.64	Joback Method
cpg	560.90	J/mol×K	705.24	Joback Method
cpg	575.57	J/mol×K	741.85	Joback Method
cpg	588.92	J/mol×K	778.45	Joback Method
cpg	600.98	J/mol×K	815.06	Joback Method
cpg	611.78	J/mol×K	851.66	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C599940&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C599940&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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