

# o-Trichlorosilylbiphenyl

**Inchi:** InChI=1S/C12H9Cl3Si/c13-16(14,15)12-9-5-4-8-11(12)10-6-2-1-3-7-10/h1-9H  
**InchiKey:** IGRRVYLDRDYVLM-UHFFFAOYSA-N  
**Formula:** C12H9Cl3Si  
**SMILES:** Cl[Si](Cl)(Cl)c1ccccc1-c1ccccc1  
**Mol. weight [g/mol]:** 287.64  
**CAS:** 18030-62-1

## Physical Properties

Property code	Value	Unit	Source
log10ws	-7.69		Crippen Method
logp	4.216		Crippen Method
ss	348.40	J/molxK	NIST Webbook
tt	339.18 ± 0.02	K	NIST Webbook

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	337.86	J/molxK	298.15	NIST Webbook
hfust	20.72	kJ/mol	339.18	NIST Webbook
hfust	20.72	kJ/mol	339.20	NIST Webbook
hvapt	67.10	kJ/mol	506.50	NIST Webbook
sfust	61.09	J/molxK	339.18	NIST Webbook

## Sources

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C18030621&Units=SI>

# Legend

<b>cps:</b>	Solid phase heat capacity
<b>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>sfust:</b>	Entropy of fusion at a given temperature
<b>ss:</b>	Solid phase molar entropy at standard conditions
<b>tt:</b>	Triple Point Temperature

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