

P-xenyltrichlorosilane

Other names:	p-Trichlorosilylbiphenyl
Inchi:	InChI=1S/C12H9Cl3Si/c13-16(14,15)12-8-6-11(7-9-12)10-4-2-1-3-5-10/h1-9H
InchiKey:	DHCRMIWRXITVBB-UHFFFAOYSA-N
Formula:	C12H9Cl3Si
SMILES:	Cl[Si](Cl)(Cl)c1ccc(-c2ccccc2)cc1
Mol. weight [g/mol]:	287.64
CAS:	18030-61-0

Physical Properties

Property code	Value	Unit	Source
log10ws	-7.69		Crippen Method
logp	4.216		Crippen Method
ss	328.80	J/molxK	NIST Webbook
ss	328.78	J/molxK	NIST Webbook
tt	372.90 ± 0.02	K	NIST Webbook
tt	372.90 ± 0.02	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	291.08	J/molxK	298.15	NIST Webbook
cps	291.10	J/molxK	298.15	NIST Webbook
hfust	18.57	kJ/mol	372.90	NIST Webbook
hfust	18.57	kJ/mol	372.90	NIST Webbook
hfust	18.57	kJ/mol	372.90	NIST Webbook
hvapt	75.70	kJ/mol	526.00	NIST Webbook
sfust	49.80	J/molxK	372.90	NIST Webbook
sfust	49.80	J/molxK	372.90	NIST Webbook

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C18030610&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

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

Latest version available from:

<https://www.chemeo.com/cid/94-035-9/P-xenyltrichlorosilane.pdf>

Generated by Cheméo on 2024-04-17 13:30:56.903395606 +0000 UTC m=+15649905.823972921.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.