

n-Butyltrichlorosilane

Other names:	Butyltrichlorosilane Silane, butyltrichloro- Trichlorobutylsilane UN 1747
Inchi:	InChI=1S/C4H9Cl3Si/c1-2-3-4-8(5,6)7/h2-4H2,1H3
InchiKey:	FQEKAFQSVPLXON-UHFFFAOYSA-N
Formula:	C4H9Cl3Si
SMILES:	CCCC[Si](Cl)(Cl)Cl
Mol. weight [g/mol]:	191.56
CAS:	7521-80-4

Physical Properties

Property code	Value	Unit	Source
log10ws	-1.17		Crippen Method
logp	3.442		Crippen Method
rinpol	903.00		NIST Webbook
rinpol	883.00		NIST Webbook
tb	415.50 ± 0.50	K	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.41019e+01
Coeff. B	-3.44521e+03
Coeff. C	-5.83690e+01
Temperature range (K), min.	307.76
Temperature range (K), max.	450.30

Sources

The Yaws Handbook of Vapor

Pressure:

Crippen Method:

Crippen Method:

NIST Webbook:

<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

https://www.chemeo.com/doc/models/crippen_log10ws

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7521804&Units=SI>

Legend

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
pvap:	Vapor pressure
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature

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