Phosphine, tributyl-

Other names:	Tri-n-butylphosphine
	Tributylphosphine
	(n-C4H9)3P
	Tributylphosphorus
	Tris(butyl)phosphine
	Tributylfosfin
Inchi:	InChI=1S/C12H27P/c1-4-7-10-13(11-8-5-2)12-9-6-3/h4-12H2,1-3H3
InchiKey:	TUQOTMZNTHZOKS-UHFFFAOYSA-N
Formula:	C12H27P
SMILES:	CCCCP(CCCC)CCCC
Mol. weight [g/mol]:	202.32
CAS:	998-40-3

Physical Properties

Property code	Value	Unit	Source
ie	7.50	eV	NIST Webbook
ie	8.00 ± 0.05	eV	NIST Webbook
ie	8.00	eV	NIST Webbook
log10ws	-0.70		Crippen Method
logp	4.869		Crippen Method
mcvol	200.400	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	51.70 ± 0.50	kJ/mol	390.50	NIST Webbook

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C998403&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume