tri-n-Propylphosphine

Other names:	Phosphine, tripropyl- tripropylphosphine
Inchi:	InChI=1S/C9H21P/c1-4-7-10(8-5-2)9-6-3/h4-9H2,1-3H3
InchiKey:	KCTAHLRCZMOTKM-UHFFFAOYSA-N
Formula:	C9H21P
SMILES:	CCCP(CCC)CCC
Mol. weight [g/mol]:	160.24
CAS:	2234-97-1

Physical Properties

Property code	Value	Unit	Source
log10ws	0.56		Crippen Method
logp	3.698		Crippen Method
mcvol	158.130	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	39.40 ± 0.20	kJ/mol	346.00	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=C2234971&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

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