DIPHENYLPROPYLPHOSPHINE

Other names:	Diphenyl-n-propylphosphine
	Phosphine, diphenylpropyl-
	Diphenylpropylphosphine
Inchi:	InChI=1S/C15H17P/c1-2-13-16(14-9-5-3-6-10-14)15-11-7-4-8-12-15/h3-12H,2,13H2,1H3
InchiKey:	AAXGWYDSLJUQLN-UHFFFAOYSA-N
Formula:	C15H17P
SMILES:	CCCP(c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	228.28

Physical Properties

Property code	Value	Unit	Source
af	0.4444		Cheméo Relay (1.0)
gf	292.99	kJ/mol	Cheméo Relay (1.0, beta)
hf	66.01	kJ/mol	Cheméo Relay (1.0)
hvap	69.64	kJ/mol	Cheméo Relay (1.0)
ie	7.94	eV	Cheméo Relay (1.0)
log10ws	-5.09		Cheméo Relay (1.0)
logp	3.529		Crippen Method
mcvol	195.150	ml/mol	McGowan Method
pc	2393.65	kPa	Cheméo Relay (1.0, beta)
tb	585.64	K	Cheméo Relay (1.0)
tc	796.47	K	Cheméo Relay (1.0)
tf	279.84	K	Cheméo Relay (1.0)
vc	0.693	m3/kmol	Cheméo Relay (1.0)

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7650842&Units=SI
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

af:	Acentric Factor
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume