PHOSPHINE OXIDE, TRIMETHYL-

Other names: (CH3)3PO
Phosphine oxide, trimethyl-
Inchi: InChI=1S/C3H9OP/c1-5(2,3)4/h1-3H3
InchiKey: LRMLWYXJORUTBG-UHFFFAOYSA-N
Formula: C3H9OP
SMILES: CP(C)(C)=O
Mol. weight [g/mol]: 92.08

Physical Properties

Property code	Value	Unit	Source
affp	909.70	kJ/mol	NIST Webbook
basg	880.00	kJ/mol	NIST Webbook
hvap	44.10	kJ/mol	Cheméo Relay (1.0)
ie	9.88	eV	NIST Webbook
ie	9.89	eV	NIST Webbook
ie	9.90	eV	NIST Webbook
logp	1.239		Crippen Method
mcvol	79.460	ml/mol	McGowan Method
tb	424.63	K	Cheméo Relay (1.0)
tf	371.59	K	Cheméo Relay (1.0)

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C676960&Units=SI
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):
Cheméo Relay (1.0, beta):

Legend

affp:	Proton affinity
basg:	Gas basicity
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point