(Dimethylphosphoryl)benzene

Other names: (CH3)2(C6H5)PO
Inchi: InChI=1S/C8H11OP/c1-10(2,9)8-6-4-3-5-7-8/h3-7H,1-2H3
InchiKey: IPZJMMRIOCINCK-UHFFFAOYSA-N
Formula: C8H11OP
SMILES: CP(C)(=O)c1ccccc1
Mol. weight [g/mol]: 154.15

Physical Properties

Property code	Value	Unit	Source
affp	908.90	kJ/mol	NIST Webbook
basg	876.40	kJ/mol	NIST Webbook
ie	9.03	eV	Cheméo Relay (1.0)
logp	1.935		Crippen Method
mcvol	126.150	ml/mol	McGowan Method
tf	356.84	K	Cheméo Relay (1.0)

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C10311087&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
ie: Ionization energy
logp: Octanol/Water partition coefficient

mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point