

(Dimethylphosphoryl)benzene

Other names:	(CH ₃) ₂ (C ₆ H ₅)PO
Inchi:	InChI=1S/C ₈ H ₁₁ OP/c1-10(2,9)8-6-4-3-5-7-8/h3-7H,1-2H3
InchiKey:	IPZJMMRIOCINCK-UHFFFAOYSA-N
Formula:	C ₈ H ₁₁ OP
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

Latest version available from:

<https://www.cheméo.com/cid/73-270-1/Dimethylphosphoryl-benzene.pdf>

Generated by Cheméo on 2026-07-22 03:00:41.591238502 +0000 UTC m=+200337.433123911.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.