

Hexamethylcyclotriphosphazene

Other names:	Cyclo-tris(dimethylphosphonitrile)
Inchi:	InChI=1S/C6H18N3P3/c1-10(2)7-11(3,4)9-12(5,6)8-10/h1-6H3
InchiKey:	DEBZEVJNWCNATM-UHFFFAOYSA-N
Formula:	C6H18N3P3
SMILES:	CP1(C)=NP(C)(C)=NP(C)(C)=N1
Mol. weight [g/mol]:	225.15
CAS:	6607-30-3

Physical Properties

Property code	Value	Unit	Source
ie	8.35 ± 0.05	eV	NIST Webbook
log10ws	8.19		Crippen Method
logp	4.127		Crippen Method
mcvol	175.860	ml/mol	McGowan Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6607303&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

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<https://www.chemeo.com/cid/10-084-7/Hexamethylcyclotriphosphazene.pdf>

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