

Arsinecarbonitrile, diphenyl-

Other names:	Diphenylcyanoarsine DC Arsinous cyanide, diphenyl- diphenylarsinecarbonitrile
Inchi:	InChI=1S/C13H10AsN/c15-11-14(12-7-3-1-4-8-12)13-9-5-2-6-10-13/h1-10H
InchiKey:	BDHNJKLLVSRGDK-UHFFFAOYSA-N
Formula:	C13H10AsN
SMILES:	<chem>N#C[As](c1ccccc1)c1ccccc1</chem>
Mol. weight [g/mol]:	255.15
CAS:	23525-22-6

Physical Properties

Property code	Value	Unit	Source
log10ws	-8.88		Crippen Method
logp	1.358		Crippen Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	84.60	kJ/mol	311.00	NIST Webbook

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C23525226&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient

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