

# Phenyldichloroarsine

<b>Other names:</b>	Arsine dichloride, phenyl- Arsine, dichlorophenyl- Arsonous dichloride, As-phenyl- Arsonous dichloride, phenyl- Dichlor-fenylarsin Dichlorophenylarsine FDA Fenildicloroarsina Fenyldichlorarsin Phenyl dichlorarsine Phenylarsenic dichloride Phenylarsinedichloride Rcra waste number P036 TL 69
<b>Inchi:</b>	InChI=1S/C6H5AsCl2/c8-7(9)6-4-2-1-3-5-6/h1-5H
<b>InchiKey:</b>	UDHDFEGCOJAVRE-UHFFFAOYSA-N
<b>Formula:</b>	C6H5AsCl2
<b>SMILES:</b>	Cl[As](Cl)c1ccccc1
<b>Mol. weight [g/mol]:</b>	222.93
<b>CAS:</b>	696-28-6

## Physical Properties

Property code	Value	Unit	Source
log10ws	-4.39		Crippen Method
logp	1.859		Crippen Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	58.40	kJ/mol	323.00	NIST Webbook
hvapt	48.70	kJ/mol	432.00	NIST Webbook

# Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.61240e+01
Coeff. B	-5.70403e+03
Coeff. C	-3.23910e+01
Temperature range (K), min.	392.58
Temperature range (K), max.	559.93

## Sources

Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
Crippen Method:	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>
NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C696286&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C696286&amp;Units=SI</a>
The Yaws Handbook of Vapor Pressure:	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</a>

## Legend

<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>pvap:</b>	Vapor pressure

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