

# Arsonous dichloride, methyl-

<b>Other names:</b>	Arsine, dichloromethyl- Arsonous dichloride, As-methyl- Dichloromethylarsine Methylarsine dichloride Methylarsonous dichloride Methyldichlorarsine Methyldichloroarsine TL 294
<b>Inchi:</b>	InChI=1S/CH3AsCl2/c1-2(3)4/h1H3
<b>InchiKey:</b>	VXRMBBLRHSRVDK-UHFFFAOYSA-N
<b>Formula:</b>	CH3AsCl2
<b>SMILES:</b>	C[As](Cl)Cl
<b>Mol. weight [g/mol]:</b>	160.86
<b>CAS:</b>	593-89-5

## Physical Properties

Property code	Value	Unit	Source
ie	10.40 ± 0.10	eV	NIST Webbook
log10ws	0.79		Crippen Method
logp	1.582		Crippen Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	41.00	kJ/mol	293.00	NIST Webbook

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$

Coeff. A	1.68618e+01
Coeff. B	-4.93352e+03
Temperature range (K), min.	297.66
Temperature range (K), max.	427.13

## Sources

<b>The Yaws Handbook of Vapor Pressure:</b>	<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>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C593895&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C593895&amp;Units=SI</a>

## Legend

<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<b>ie:</b>	Ionization energy
<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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