

# Lewisite 2

<b>Other names:</b>	Arsine, bis(2-chlorovinyl)chloro- Bis(2-chlorovinyl)chloroarsine Dichlorovinylarsine chloride Dichlorovinylchloroarsine L-2 Lewisite II
<b>Inchi:</b>	InChI=1S/C4H4AsCl3/c6-3-1-5(8)2-4-7/h1-4H/b3-1+,4-2+
<b>InchiKey:</b>	YRFJGLQNTWLXKO-ZPUQHVIOSA-N
<b>Formula:</b>	C4H4AsCl3
<b>SMILES:</b>	<chem>C1C=C[As](Cl)C=CCl</chem>
<b>Mol. weight [g/mol]:</b>	233.35
<b>CAS:</b>	40334-69-8

## Physical Properties

Property code	Value	Unit	Source
log10ws	-0.91		Crippen Method
logp	2.800		Crippen Method
rinpol	1279.00		NIST Webbook
rinpol	1268.00		NIST Webbook
rinpol	1290.00		NIST Webbook
rinpol	1290.00		NIST Webbook
rinpol	1290.00		NIST Webbook

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.98907e+01
Coeff. B	-7.05811e+03
Temperature range (K), min.	360.05
Temperature range (K), max.	484.12

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C40334698&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C40334698&amp;Units=SI</a>
<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/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>pvap:</b>	Vapor pressure
<b>rinpolar:</b>	Non-polar retention indices

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