

Lewisite

Other names:	Lewisite I 2-Chlorovinylchloroarsine Arsonous dichloride, (2-chloroethenyl)- Arsine, dichloro(2-chlorovinyl)- Arsine, (2-chlorovinyl)dichloro- Chlorovinylarsine dichloride «beta»-Chlorovinylbichloroarsine Dichloro(2-chlorovinyl)arsine M-1 (2-Chloroethenyl)arsonous dichloride Lewisite 1 Arsonous dichloride, As-(2-chloroethenyl)- Lewisite (arsenic compound)
Inchi:	InChI=1S/C2H2AsCl3/c4-2-1-3(5)6/h1-2H/b2-1+
InchiKey:	GIKLTQKNOXNBNY-OWOJBTEDSA-N
Formula:	C2H2AsCl3
SMILES:	ClC=C[As](Cl)Cl
Mol. weight [g/mol]:	207.32
CAS:	541-25-3

Physical Properties

Property code	Value	Unit	Source
log10ws	-0.22		Crippen Method
logp	2.244		Crippen Method
rinpol	1083.00		NIST Webbook
rinpol	1064.00		NIST Webbook
rinpol	1081.00		NIST Webbook
rinpol	1083.00		NIST Webbook
rinpol	1083.00		NIST Webbook
rinpol	1083.00		NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C541253&Units=SI>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

hvapt: Enthalpy of vaporization at a given temperature

log10ws: Log10 of Water solubility in mol/l

logp: Octanol/Water partition coefficient

rinpol: Non-polar retention indices

Latest version available from:

<https://www.chemeo.com/cid/57-336-6/Lewisite.pdf>

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