Arsine, tris(2-chloroethenyl)-

Other names:	Lewisite 3
	Lewisite III
	tris(2-Chloroethenyl)arsine
	tris-(2-Chlorovinyl) arsine
Inchi:	InChI=1S/C6H6AsCl3/c8-4-1-7(2-5-9)3-6-10/h1-6H/b4-1+,5-2+,6-3+
InchiKey:	AOAVIJUEFJPSAI-GZDDRBCLSA-N
Formula:	C6H6AsCl3
SMILES:	ClC=C[As](C=CCl)C=CCl
Mol. weight [g/mol]:	259.39
CAS:	40334-70-1

Physical Properties

Property code	Value	Unit	Source
log10ws	-1.60		Crippen Method
logp	3.356		Crippen Method
rinpol	1465.00		NIST Webbook
rinpol	1454.00		NIST Webbook
rinpol	1465.00		NIST Webbook
rinpol	1465.00		NIST Webbook
rinpol	1465.00		NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.88453e+01
Coeff. B	-7.58702e+03
Temperature range (K), min.	408.83
Temperature range (K), max.	560.60

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C40334701&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

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