

Dimethylgermanium dichloride

Other names:	Dichlorodimethylgermane Dimethyldichlorogermane Dimethylgermanedichloride Dimethylgermyl dichloride Germane, dichlorodimethyl-
Inchi:	InChI=1S/C2H6Cl2Ge/c1-5(2,3)4/h1-2H3
InchiKey:	YQECBLVSMFAWIZ-UHFFFAOYSA-N
Formula:	C2H6Cl2Ge
SMILES:	C[Ge](C)(Cl)Cl
Mol. weight [g/mol]:	173.62
CAS:	1529-48-2

Physical Properties

Property code	Value	Unit	Source
ie	10.18 ± 0.05	eV	NIST Webbook
ie	10.65	eV	NIST Webbook
log10ws	0.40		Crippen Method
logp	2.166		Crippen Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.43508e+01
Coeff. B	-3.35010e+03
Coeff. C	-5.19300e+01
Temperature range (K), min.	290.15
Temperature range (K), max.	422.55

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1529482&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/ci9903071

Legend

ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
pvap:	Vapor pressure

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<https://www.chemeo.com/cid/11-015-2/Dimethylgermanium-dichloride.pdf>

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