

Germyl radical

Inchi: InChI=1S/GeH3/h1H3
InchiKey: WHYHZFHCWGGCOP-UHFFFAOYSA-N
Formula: GeH3
SMILES: [GeH3]
Mol. weight [g/mol]: 75.66
CAS: 13765-45-2

Physical Properties

Property code	Value	Unit	Source
ea	1.61 ± 0.12	eV	NIST Webbook
ea	1.74 ± 0.04	eV	NIST Webbook
ea	1.58	eV	NIST Webbook
hfpi	983.00	kJ/mol	NIST Webbook
ie	7.95 ± 0.01	eV	NIST Webbook
log10ws	3.33		Crippen Method
logp	-1.184		Crippen Method

Sources

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C13765452&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Legend

ea: Electron affinity
hfpi: Enthalpy of formation of positive ion at standard conditions
ie: Ionization energy
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient

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<https://www.cheméo.com/cid/44-980-5/Germyl-radical.pdf>

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