

# tetrafluorogermane

<b>Other names:</b>	Germanium tetrafluoride
<b>Inchi:</b>	InChI=1S/F4Ge/c1-5(2,3)4
<b>InchiKey:</b>	PPMWWXLUCOODDK-UHFFFAOYSA-N
<b>Formula:</b>	F4Ge
<b>SMILES:</b>	F[Ge](F)(F)F
<b>Mol. weight [g/mol]:</b>	148.63
<b>CAS:</b>	7783-58-6

## Physical Properties

Property code	Value	Unit	Source
hf	-1190.20 ± 0.50	kJ/mol	NIST Webbook
ie	15.50	eV	NIST Webbook
ie	16.10	eV	NIST Webbook
ie	16.06 ± 0.04	eV	NIST Webbook
ie	15.69 ± 0.02	eV	NIST Webbook
log10ws	0.97		Crippen Method
logp	1.300		Crippen Method
sgb	301.90 ± 1.00	J/mol×K	NIST Webbook

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C7783586&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7783586&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>

## Legend

<b>hf:</b>	Enthalpy of formation at standard conditions
<b>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient

**sgb:** Molar entropy at standard conditions (1 bar)

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<https://www.chemeo.com/cid/71-325-2/tetrafluorogermane.pdf>

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