

# Selenium(IV) oxide

<b>Other names:</b>	Rcra waste number U204 SeO2 Selenious anhydride Selenium dioxide Selenium oxide Selenium oxide (SeO2) Selenium(iv) dioxide (1:2) Selenous acid anhydride
<b>Inchi:</b>	InChI=1S/O2Se/c1-3-2
<b>InchiKey:</b>	JPJALAQPGMAKDF-UHFFFAOYSA-N
<b>Formula:</b>	O2Se
<b>SMILES:</b>	O=[Se]=O
<b>Mol. weight [g/mol]:</b>	110.96
<b>CAS:</b>	7446-08-4

## Physical Properties

Property code	Value	Unit	Source
ea	1.82 ± 0.04	eV	NIST Webbook
ie	11.50 ± 0.50	eV	NIST Webbook
ie	11.76	eV	NIST Webbook
log10ws	-6.31		Crippen Method
logp	-0.618		Crippen Method

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	3.94636e+01
Coeff. B	-2.67057e+04
Coeff. C	1.78260e+02
Temperature range (K), min.	388.15
Temperature range (K), max.	608.15

# Sources

**The Yaws Handbook of Vapor**

**Pressure:  
Crippen Method:**

<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

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

**Crippen Method:**

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**NIST Webbook:**

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7446084&Units=SI>

# Legend

<b>ea:</b>	Electron affinity
<b>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>pvap:</b>	Vapor pressure

Latest version available from:

<https://www.chemeo.com/cid/52-457-7/Selenium-IV-oxide.pdf>

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