

SELENIUM OXIDE (SeO2)

Other names:	Rcra waste number U204 SeO2 Selenious anhydride Selenium dioxide Selenium oxide Selenium(iv) dioxide (1:2) Selenous acid anhydride
Inchi:	InChI=1S/O2Se/c1-3-2
InchiKey:	JPJALAQPGMAKDF-UHFFFAOYSA-N
Formula:	SeO2
SMILES:	O=[Se]=O
Mol. weight [g/mol]:	110.96
CAS:	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
logp	-0.618		Crippen Method

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = 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

Cheméo Relay (1.0, beta):

The Yaws Handbook of Vapor
Pressure:
NIST Webbook:

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

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

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Legend

ea:	Electron affinity
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
pvap:	Vapor pressure

Latest version available from:

<https://www.chemeo.com/cid/52-457-7/SELENIUM-OXIDE-SEO2.pdf>

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