

arsenic

Other names:	ARSEN
Inchi:	InChI=1S/As
InchiKey:	RQNWIZPPADIBDY-UHFFFAOYSA-N
Formula:	As
SMILES:	[As]
Mol. weight [g/mol]:	74.92
CAS:	7440-38-2

Physical Properties

Property code	Value	Unit	Source
ea	0.80 ± 0.00	eV	NIST Webbook
ea	0.81 ± 0.01	eV	NIST Webbook
ea	0.81 ± 0.03	eV	NIST Webbook
ie	9.82	eV	NIST Webbook
ie	9.81	eV	NIST Webbook
ie	9.82	eV	NIST Webbook
ie	10.00 ± 0.30	eV	NIST Webbook
ie	10.00	eV	NIST Webbook
ie	9.79 ± 0.00	eV	NIST Webbook
ie	9.79 ± 0.00	eV	NIST Webbook
tc	1673.00	K	KDB
vc	0.035	m3/kmol	KDB

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	2.23978e+01
Coeff. B	-1.45383e+04
Coeff. C	-5.70600e+01
Temperature range (K), min.	553.15
Temperature range (K), max.	874.15

Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7440382&Units=SI>

**The Yaws Handbook of Vapor
Pressure:
KDB:**

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

<https://www.thermo.com/research/kdb/hcprop/showprop.php?cmpid=1947>

Legend

ea:	Electron affinity
ie:	Ionization energy
pvap:	Vapor pressure
tc:	Critical Temperature
vc:	Critical Volume

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