

silver iodide

Inchi:	InChI=1S/Ag.HI/h;1H/q+1;/p-1
InchiKey:	MSFPLIAKTHOCQP-UHFFFAOYSA-M
Formula:	AgI
SMILES:	[Ag+].[I-]
Mol. weight [g/mol]:	234.77
CAS:	7783-96-2

Physical Properties

Property code	Value	Unit	Source
ie	8.80	eV	NIST Webbook
ie	8.90	eV	NIST Webbook
ie	8.40	eV	NIST Webbook
ie	13.75	eV	NIST Webbook
ie	10.21	eV	NIST Webbook
ie	8.80	eV	NIST Webbook
ie	9.27	eV	NIST Webbook
tf	832.00	K	Ultrasonic velocity for an equimolar mixture of molten AgI and NaCl in the biphasic region
tf	832.00	K	Densities of a dissolving mixture of molten (AgI + NaCl)
tf	832.00	K	An anion effect on the separation of AgI-containing melts using sound waves
tt	832.00	K	Phase-boundary potential in the two-liquid-phase (AgI + NaCl) system

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.39563e+01

Coeff. B	-1.54173e+04
Coeff. C	-1.28120e+02
Temperature range (K), min.	1093.15
Temperature range (K), max.	1779.15

Sources

Densities of a dissolving mixture of molten (AgI + NaCl): An anion effect on the separation of AgI-containing melts using sound waves - boundary potential in the two-liquid-phase (AgI + NaCl) system: NIST Webbook:

<https://www.doi.org/10.1016/j.jct.2013.03.027>

<https://www.doi.org/10.1016/j.jct.2015.03.022>

<https://www.doi.org/10.1016/j.jct.2015.06.015>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7783962&Units=SI>

The Yaws Handbook of Vapor Pressure:

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

Ultrasonic velocity for an equimolar mixture of molten AgI and NaCl in the biphasic region:

<https://www.doi.org/10.1016/j.jct.2012.12.015>

Legend

ie:	Ionization energy
pvap:	Vapor pressure
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature

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