

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
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

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=C7783962&Units=SI>

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Ultrasonic velocity for an equimolar
mixture of molten AgI and NaCl in the
dense region
Phase diagram of a dissolving mixture of
molten (AgI + NaCl):
An anion effect on the separation of
AgI-containing melts using sound
Wave-boundary potential in the
two-liquid-phase (AgI + NaCl) system:

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

Legend

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

Latest version available from:

<https://www.chemeo.com/cid/23-899-9/Silver-iodide.pdf>

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