

Ammonium iodide

Other names:	ammonium iodide ((NH4)I)
Inchi:	InChI=1S/HI.H3N/h1H;1H3
InchiKey:	UKFWSNCTAHXBQN-UHFFFAOYSA-N
Formula:	NH4I
SMILES:	[I-].[NH4+]
Mol. weight [g/mol]:	144.94
CAS:	12027-06-4

Physical Properties

Property code	Value	Unit	Source
ea	0.81 ± 0.05	eV	NIST Webbook
hsub	182.00	kJ/mol	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	2.19485e+01
Coeff. B	-1.21728e+04
Coeff. C	2.42600e+01
Temperature range (K), min.	484.05
Temperature range (K), max.	678.15

Sources

Dynamic Viscosities of KI or NH4I in Methanol and NH4I in Ethanol at Vapor Pressure and Liquid Densities of Ammonium Iodide + Ammonia Mixtures	https://www.doi.org/10.1021/je049808f
The Yaws Handbook of Vapor Pressure:	https://www.doi.org/10.1021/je9006713
NIST Webbook:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Cheméo Relay (1.0):	http://webbook.nist.gov/cgi/cbook.cgi?ID=C12027064&Units=SI

Legend

ea:	Electron affinity
hsub:	Enthalpy of sublimation at standard conditions
pvap:	Vapor pressure

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