

ammonium iodide

Other names:	ammonium iodide ((NH ₄)I)
Inchi:	InChI=1S/HI.H3N/h1H;1H3
InchiKey:	UKFWSNCTAHXBQN-UHFFFAOYSA-N
Formula:	H4IN
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	$\ln(P_{vp}) = A + B/(T + C)$
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 Pressures and Liquid Densities of Ammonium Iodide + Ammonia Mixtures

<https://www.doi.org/10.1021/je049808f>

NIST Webbook:

<https://www.doi.org/10.1021/je9006713>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C12027064&Units=SI>

The Yaws Handbook of Vapor Pressure:

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

Legend

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

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<https://www.chemeo.com/cid/64-365-6/ammonium-iodide.pdf>

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