

Ammonium thiocyanate

Other names:	ammonium isothiocyanate ammonium rhodanate ammonium rhodanid ammonium sulfocyanate
Inchi:	InChI=1S/CHNS.H3N/c2-1-3;/h3H;1H3
InchiKey:	SOIFLUNRINLCBN-UHFFFAOYSA-N
Formula:	CH4N2S
SMILES:	<chem>N#[S-].[NH4+]</chem>
Mol. weight [g/mol]:	76.12
CAS:	1762-95-4

Physical Properties

Property code	Value	Unit	Source
hsub	133.90	kJ/mol	NIST Webbook
ss	140.20	J/mol×K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	125.40	J/mol×K	298.15	NIST Webbook

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C1762954&Units=SI>

Separation of azeotropic mixtures <https://www.doi.org/10.1016/j.fluid.2015.01.011>

<https://www.doi.org/10.1016/j.ict.2006.04.006>

<https://www.doi.org/10.1016/j.ict.2012.06.007>

Empirical Equation: [Studies on Molecular Interactions of](https://www.doi.org/10.1021/ie800562h) <https://www.doi.org/10.1021/ie800562h>

Some Thiocyanate Salts in Coaqueous
Solubility of Ammonium Thiocyanate in <https://www.doi.org/10.1021/ie800621p>

Differential, Volumetric, and Speed of Sound Measurements:

Legend

cps:	Solid phase heat capacity
hsub:	Enthalpy of sublimation at standard conditions
ss:	Solid phase molar entropy at standard conditions

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