

# 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:	N#C[S-].[NH4+]
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/molxK	NIST Webbook

## Temperature Dependent Properties

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

## Sources

Studies on Molecular Interactions of Some Thiocyanate Salts in Coaqueous Solutions of Ammonia Thiocyanate in Different Solvents: Thermodynamic, Spectrometric, and Speed of Sound Measurements:

<https://www.doi.org/10.1021/je800562h>

Separation of azeotropic mixtures using high ionicity ionic liquid based solvent extraction: Equilibrium for (2-propanol + water + ammonium thiocyanate) in organic media by an empirical equation:

<https://www.doi.org/10.1021/je800621p>

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

<https://www.doi.org/10.1016/j.fluid.2015.01.011>

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

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

# Legend

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

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