

# Samarium isothiocyanate hexahydrate

**Inchi:** InChI=1S/3CNS.6H2O.Sm/c3\*2-1-3;;;;;;;;;;/h;;;6\*1H2;/q3\*-1;;;;;;;;;;+3  
**InchiKey:** YSWICNUPFRXNBJ-UHFFFAOYSA-N  
**Formula:** C3N3S3Sm.H12O6  
**SMILES:** O.O.O.O.O.O.[N-]=C=S.[N-]=C=S.[N-]=C=S.[Sm+3]  
**Mol. weight [g/mol]:** 432.70  
**CAS:** 113614-84-9

## Physical Properties

Property code	Value	Unit	Source
ss	543.11	J/molxK	NIST Webbook

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	465.92	J/molxK	298.15	NIST Webbook

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C113614849&Units=SI>

## Legend

**cps:** Solid phase heat capacity  
**ss:** Solid phase molar entropy at standard conditions

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