

# Cerium isothiocyanate heptahydrate

**Inchi:** InChI=1S/3CNS.Ce.7H2O/c3\*2-1-3;;;;;;;;;;/h;;;;;7\*1H2/q3\*-1;+3;;;;;;;;;  
**InchiKey:** SCFQIPHFVJAZMR-UHFFFAOYSA-N  
**Formula:** C3CeN3S3.H14O7  
**SMILES:** O.O.O.O.O.O.O.[Ce+3].[N-]=C=S.[N-]=C=S.[N-]=C=S  
**Mol. weight [g/mol]:** 440.47  
**CAS:** 16648-21-8

## Physical Properties

Property code	Value	Unit	Source
ss	611.16	J/molxK	NIST Webbook

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	537.62	J/molxK	298.15	NIST Webbook

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C16648218&Units=SI>

## Legend

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

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