## caesium fluoride

Other names: Cesium fluoride

cesium fluoride (CsF)

cesium monofluoride

InChl=1S/Cs.FH/h;1H/q+1;/p-1

InchiKey: XJHCXCQVJFPJIK-UHFFFAOYSA-M

Formula: CsF

**SMILES:** [Cs+].[F-] **Mol. weight [g/mol]:** 151.90 **CAS:** 13400-13-0

# **Physical Properties**

Property code	Value	Unit	Source
hfus	22.10	kJ/mol	A comprehensive study of the heat capacity of CsF from T = 5 K to T = 1400 K
ie	$8.80 \pm 0.10$	eV	NIST Webbook
ie	$9.00 \pm 0.20$	eV	NIST Webbook
ie	$8.80 \pm 0.10$	eV	NIST Webbook
ie	$9.68 \pm 0.05$	eV	NIST Webbook
ie	9.70	eV	NIST Webbook
ie	9.00	eV	NIST Webbook
tf	972.00	K	Thermodynamic determination and assessment of the CsF-ThF4 system

## **Correlations**

Information

Property code	pvap	
Equation	In(Pvp) = A + B/(T + C)	
Coeff. A	1.53539e+01	
Coeff. B	-1.51489e+04	
Coeff. C	-1.13050e+02	
Temperature range (K), min.	985.15	

Value

#### Sources

Activity Coefficients of RbF or CsF in Ressure:
Density of Methanolic Alkali Halide Salt https://www.doi.org/10.1021/je5009944

Solutions by Experiment and Molecular ម៉ាត្តាប៉ាងខ្មែរង្វាល់

Potentiometric Investigation of the Thermodynamic Properties of Mixed Electrocytes yie in year to get to the thermodynamic Properties of Mixed Electrocytes yie in year to get year to get to ge Density of Aqueous Alkali Halide Salt Saparaty of: CsF from T = 5 K to T = 1400 K:

https://www.doi.org/10.1021/je500420g
https://www.doi.org/10.1016/j.jct.2012.08.003

https://www.doi.org/10.1021/je200178b

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http://webbook.nist.gov/cgi/cbook.cgi?ID=C13400130&Units=SI

https://www.doi.org/10.1021/acs.jced.8b00383

https://www.doi.org/10.1016/j.fluid.2016.11.006

https://www.doi.org/10.1016/j.jct.2016.08.014

https://www.doi.org/10.1016/j.jct.2017.05.008

### Legend

hfus: Enthalpy of fusion at standard conditions

ie: Ionization energy Vapor pressure pvap:

tf: Normal melting (fusion) point

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