# caesium fluoride

Other names:	Cesium fluoride	
	cesium fluoride (CsF)	
	cesium monofluoride	
Inchi:	InChI=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 ± 0.10	eV	NIST Webbook
ie	9.00	eV	NIST Webbook
ie	$9.00 \pm 0.20$	eV	NIST Webbook
ie	8.80 ± 0.10	eV	NIST Webbook
ie	9.68 ± 0.05	eV	NIST Webbook
ie	9.70	eV	NIST Webbook
tf	972.00	К	Thermodynamic determination and assessment of the CsF-ThF4 system

## Correlations

Information	Value
Property code	pvap
Equation	ln(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

#### Sources

Thermodynamic studies of (RbF + RbCl https://www.doi.org/10.1016/j.jct.2016.08.014 + H2O) and (CsF + CsCl + H2O) ternary Destens of Mathematic Algeric Halide Salt brassions for texperiments and Molecular Shaulaws Handbook of Vapor https://www.sciencedirect.com/book/97 Pressure:

Thermodynamic determination and assessment of the CsF-ThF4 system: Temperature Dependence of the Simulation: Thermodynamic investigation of RbF +

Rb2SO4 + H2O and CsF + Cs2SO4 + Azo therefore system to the structure of t Thermodynamic Properties of Mixed And with Geographics of 2005-2014 (SEFin-the Bethermodynamic sef 2005-2014 (SEFin-the Bethermodynamic sef Water Norshing Sector) Potentiometric Measurements at 298.15 K:

https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure https://www.doi.org/10.1016/j.jct.2017.05.008 https://www.doi.org/10.1021/je500420g Density of Aqueous Alkali Halide Salt https://www.doi.org/10.1016/j.fluid.2016.11.006

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

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

#### Legend

hfus:	Enthalpy of fusion at standard conditions
ie:	Ionization energy
pvap:	Vapor pressure
tf:	Normal melting (fusion) point

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