caesium chloride

Other names: Cesium chloride

InChI=1S/CIH.Cs/h1H;/q;+1/p-1

InchiKey: AIYUHDOJVYHVIT-UHFFFAOYSA-M

Formula: CICs

SMILES: [CI-].[Cs+] **Mol. weight [g/mol]**: 168.36 **CAS**: 7647-17-8

Physical Properties

Property code	Value	Unit	Source
ea	0.46 ± 0.10	eV	NIST Webbook
hfus	3.80	kJ/mol	Thermodynamic Characterization of the Congruently Melting Cs3CeCl6 Compound
ie	7.40	eV	NIST Webbook
ie	8.80	eV	NIST Webbook
ie	8.30 ± 0.10	eV	NIST Webbook
ie	8.30 ± 0.30	eV	NIST Webbook
ie	8.70 ± 0.10	eV	NIST Webbook
ie	8.50	eV	NIST Webbook
ie	8.30 ± 0.10	eV	NIST Webbook
ie	7.84 ± 0.05	eV	NIST Webbook
tf	918.00	К	Adiabatic compressibility along the two-phase saturation line for the molten (LiF + CsCl) system

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
rhos	3074.50	kg/m3	843.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point

rhos	3067.60	kg/m3	853.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point	
rhos	3060.20	kg/m3	863.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point	
rhos	3052.40	kg/m3	873.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point	
rhos	3046.00	kg/m3	883.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point	
rhos	3040.90	kg/m3	893.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point	
rhos	3039.50	kg/m3	903.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point	
rhos	3041.80	kg/m3	913.00	Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point	

Correlations

Information Value

Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.58087e+01
Coeff. B	-1.66564e+04
Coeff. C	-8.16900e+01
Temperature range (K), min.	1017.15
Temperature range (K), max.	1570.15

Sources

Equilibrium Phase Behavior of Water + Propan-1-ol or Propan-2-ol + Cesium	https://www.doi.org/10.1021/je050265z
ଚନାର୍ଗ୍ୟୟିକ୍ୟ ବ୍ୟୁଷ୍ଟ ୧୭୭୭ ୧୫ କ୍ରିଆର୍ଥିୟ ୨ଟ୍ଲ ସମୟ ଓ ୩୫.15) two-phase saturation line for the	https://www.doi.org/10.1016/j.jct.2019.07.003
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Mater Activity and Solubility Measurements and Model Simulation of	https://www.doi.org/10.1021/acs.jced.7b00459
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and Their Eutectic Mixtures Near the Manng Famistry of dicesium calcium	https://www.doi.org/10.1016/j.tca.2006.05.020
tetrabŏrate octahydrate: The Yaws Handbook of Vapor	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Pressure: Partial molar volume of NaCl and CsCl	https://www.doi.org/10.1016/j.fluid.2017.10.034
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	https://www.doi.org/10.1016/j.jct.2005.10.010
and aqueous cesium chloride solutions भिरुद्दामा हमा सम्बद्धाः क्षेत्रका कार्यातिक	https://www.doi.org/10.1021/je4007986
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coefficients in ternary systems at Massprement and Correlation of Solubilities and Solution	https://www.doi.org/10.1021/acs.jced.5b01043
ទីសម្រេកដូចែន ឧបស្ថិត្តទៅប្រកា dissolving alkali	https://www.doi.org/10.1016/j.jct.2010.10.021
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Density of Wethannia Alkall Halide Salt	https://www.doi.org/10.1021/je5009944
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Electrical Conductivity of LiCI-KCI-CsCI Melts:	https://www.doi.org/10.1021/acs.jced.5b00682
Solubilities, densities and refractive indices for the ternary systems	https://www.doi.org/10.1016/j.jct.2010.01.017
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Legend

ea: Electron affinity

hfus: Enthalpy of fusion at standard conditions

ie: Ionization energypvap: Vapor pressurerhos: Solid Density

tf: Normal melting (fusion) point

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