

Zinc Chloride

Other names:	Butter of zinc
	Chlorure de zinc
	Hydrochloric acid zinc salt (2:1)
	Tinning flux
	UN 1840
	UN 2331
	Zinc (chlorure de)
	Zinc Butter
	Zinc chloride (ZnCl2)
	Zinc chloride, anhydrous
	Zinc dichloride
	Zinc muriate
	Zinco
	Zinco (cloruro di)
	Zintrace
	Zinkchlorid
	Zinkchloride
Inchi:	InChI=1S/2ClH.Zn/h2*1H;/q;;+2/p-2
InchiKey:	JIAARYAFYJHUJI-UHFFFAOYSA-L
Formula:	Cl2Zn
SMILES:	Cl[Zn]Cl
Mol. weight [g/mol]:	136.29
CAS:	7646-85-7

Physical Properties

Property code	Value	Unit	Source
ie	11.75 ± 0.23	eV	NIST Webbook
ie	11.80 ± 0.01	eV	NIST Webbook
ie	11.83	eV	NIST Webbook
ie	11.85	eV	NIST Webbook
ie	11.87 ± 0.05	eV	NIST Webbook
ie	11.70	eV	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
econd	0.04	S/m	558.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl2, ZnCl2, and PbCl2
econd	0.06	S/m	568.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl2, ZnCl2, and PbCl2
econd	0.09	S/m	578.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl2, ZnCl2, and PbCl2
econd	0.13	S/m	588.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl2, ZnCl2, and PbCl2
econd	0.18	S/m	598.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl2, ZnCl2, and PbCl2

econd	0.36	S/m	618.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	0.65	S/m	638.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	1.86	S/m	681.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	7.13	S/m	756.65	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	14.38	S/m	814.95	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	21.90	S/m	858.65	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂

econd	28.75	S/m	893.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	38.81	S/m	936.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	48.10	S/m	974.65	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	49.77	S/m	981.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	55.40	S/m	1005.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	61.42	S/m	1030.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂

econd	69.22	S/m	1062.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	73.48	S/m	1078.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	81.23	S/m	1110.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	85.69	S/m	1128.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	89.01	S/m	1143.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	93.55	S/m	1163.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂

econd	74.24	S/m	1078.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	46.96	S/m	970.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	26.28	S/m	879.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	14.45	S/m	814.65	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	7.13	S/m	756.65	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	3.93	S/m	717.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂

econd	76.84	S/m	1092.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	79.17	S/m	1100.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	82.77	S/m	1114.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	87.08	S/m	1131.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	90.33	S/m	1144.65	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	95.93	S/m	1167.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂

econd	100.00	S/m	1183.65	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	103.02	S/m	1195.65	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	107.39	S/m	1214.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	110.00	S/m	1225.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	112.59	S/m	1236.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	114.76	S/m	1245.65	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂

econd	117.83	S/m	1259.65	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	122.13	S/m	1279.65	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	5.57	S/m	739.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	127.44	S/m	1306.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	129.41	S/m	1316.65	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	130.83	S/m	1324.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂

econd	133.87	S/m	1341.65	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	135.22	S/m	1350.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	136.71	S/m	1359.65	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	139.33	S/m	1376.65	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	140.86	S/m	1386.65	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	142.30	S/m	1399.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂

Adiabatic Compressibilities of Divalent Transition-Metal Perchlorates and Chlorides in Some Molten Salts and at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl_2 , ZnCl_2 , and Measurement of Mineral Solubilities in the Quaternary Systems KCl-MgCl_2 , ZnCl_2 , H_2O , and KCl-MgCl_2 , PbCl_2 , H_2O Argon-Atom-Based Deep Eutectic Solvents: Interactions between Amino Acids and Zinc Chloride in Aqueous Vapor Pressure and Apparent Molal Volumes of the Solutions of ZnCl_2 in 50 wt % and 20 wt % of Zinc Chloride Solution in N-Methylacetamide over the Temperature Ranges and Apparent Molal Volumes of ZnCl_2 in Ethanol of Dissolved Inorganic Salts on the Enthalpy of Mixing of the Ethanol + Phosphate System Properties of Inorganic Salts in Nonaqueous Solvents: Implications of the Volume and Compressibilities of Divalent Transition-Metal Chlorides in Zinc Bromide or Zinc Chloride Solutions with Methanol as Basic Quaternary Systems KCl-PbCl_2 , ZnCl_2 , H_2O and Molecularization of Phase Diagrams of ionic mixtures of Effect of Dissolved Salts on the Enthalpy of Mixing of the Methanol + Formic Acid System at 303.15 K:

<https://www.doi.org/10.1021/je8004134>

<https://www.doi.org/10.1021/je500433d>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7646857&Units=SI>

<https://www.doi.org/10.1021/acs.jced.6b00960>

<https://www.doi.org/10.1021/je400045d>

<https://www.doi.org/10.1021/je8001464>

<https://www.doi.org/10.1016/j.fluid.2004.11.022>

<https://www.doi.org/10.1021/acs.jced.8b00399>

<https://www.doi.org/10.1021/je050509f>

<https://www.doi.org/10.1021/je1002048>

<https://www.doi.org/10.1021/je700013a>

<https://www.doi.org/10.1016/j.fluid.2008.08.007>

<https://www.doi.org/10.1016/j.ijct.2005.05.017>

<https://www.doi.org/10.1021/acs.iced.7b00218>

<https://www.doi.org/10.1016/j.tca.2010.01.023>

<https://www.doi.org/10.1021/ie800568m>

Legend

econd: Electrical conductivity

hvapt: Enthalpy of vaporization at a given temperature

ie: Ionization energy

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