

lead dichloride

Other names:	lead chloride lead(2+) dichloride lead(II) chloride plumbous chloride
Inchi:	InChI=1S/2ClH.Pb/h2*1H;/q;;+2/p-2
InchiKey:	HWSZZLVAJGOAAY-UHFFFAOYSA-L
Formula:	Cl2Pb
SMILES:	Cl[PbH2]Cl
Mol. weight [g/mol]:	278.10
CAS:	7758-95-4

Physical Properties

Property code	Value	Unit	Source
ie	10.20	eV	NIST Webbook
ie	10.30 ± 0.10	eV	NIST Webbook
ie	11.20 ± 0.20	eV	NIST Webbook
ie	10.34	eV	NIST Webbook
ie	10.11	eV	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
econd	209.60	S/m	913.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl2, ZnCl2, and PbCl2

econd	197.40	S/m	883.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	184.70	S/m	854.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	170.20	S/m	824.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	158.80	S/m	800.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	150.50	S/m	783.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	221.20	S/m	943.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂

econd	232.60	S/m	972.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	243.70	S/m	1001.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	253.80	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	262.80	S/m	1058.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	272.20	S/m	1090.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	279.00	S/m	1118.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂

econd	285.70	S/m	1149.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	291.70	S/m	1177.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	298.20	S/m	1210.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	302.30	S/m	1230.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	308.60	S/m	1254.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	314.70	S/m	1279.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂

econd	318.40	S/m	1297.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl2, ZnCl2, and PbCl2
econd	321.10	S/m	1320.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl2, ZnCl2, and PbCl2

Sources

Measurement of Mineral Solubilities in the Quaternary Systems KCl MgCl2 PbCl2 ZnCl2 H2O and Systems KCl PbCl2 ZnCl2 H2O and MgCl2 PbCl2 ZnCl2 H2O and Systems ZnCl2-MgCl2-H2O and ZnCl2-PbCl2-H2O at 28 K: Experimental and Calculation Techniques for BeCl2, ZnCl2, and PbCl2: <https://www.doi.org/10.1021/acs.jced.6b00960>
<https://www.doi.org/10.1021/acs.jced.7b00218>
<https://www.doi.org/10.1021/acs.jced.8b00605>
<https://www.doi.org/10.1021/je500433d>
<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7758954&Units=SI>

Legend

econd: Electrical conductivity
ie: Ionization energy

Latest version available from:
<https://www.chemeo.com/cid/39-802-8/lead-dichloride.pdf>

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