

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:	Cl ₂ Pb
SMILES:	Cl[PbH ₂]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 BeCl ₂ , ZnCl ₂ , and PbCl ₂

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 BeCl ₂ , ZnCl ₂ , and PbCl ₂
econd	321.10	S/m	1320.15	Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl ₂ , ZnCl ₂ , and PbCl ₂

Sources

Conductivity of Some Molten Chlorides at Elevated Temperatures I. Experimental and Calculation Techniques for BeCl₂, ZnCl₂, and PbCl₂. <https://www.doi.org/10.1021/je500433d>
 NIST Webbook <http://webbook.nist.gov/cgi/cbook.cgi?ID=C7758954&Units=SI>
 Measurement of Mineral Solubilities in the Quaternary Systems KCl MgCl₂ PbCl₂ H₂O and ZnCl₂ at 323 K: <https://www.doi.org/10.1021/acs.jced.6b00960>
 Phase Equilibria in the Quaternary Systems KCl PbCl₂ ZnCl₂ H₂O and MgCl₂ at 323 K: <https://www.doi.org/10.1021/acs.jced.7b00218>
 Measurement of Mineral Solubilities in the Quaternary Systems ZnCl₂-MgCl₂-H₂O and ZnCl₂-PbCl₂-H₂O at 323 K: <https://www.doi.org/10.1021/acs.jced.8b00605>

Legend

econd: Electrical conductivity
ie: Ionization energy

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