

# Barium chloride

<b>Other names:</b>	barium chloride dihydrate
<b>Inchi:</b>	InChI=1S/Ba.2ClH.2H2O/h;2*1H;2*1H2/q+2;;;/p-2
<b>InchiKey:</b>	PWHCIQQGOQTFAE-UHFFFAOYSA-L
<b>Formula:</b>	BaCl <sub>2</sub> H <sub>4</sub> O <sub>2</sub>
<b>SMILES:</b>	Cl[Ba]Cl.O.O
<b>Mol. weight [g/mol]:</b>	244.26

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
psub	0.50	kPa	295.45	Vapor Pressures of Hydrated Barium Chloride
psub	0.39	kPa	295.55	Vapor Pressures of Hydrated Barium Chloride
psub	0.53	kPa	295.55	Vapor Pressures of Hydrated Barium Chloride
psub	0.56	kPa	295.65	Vapor Pressures of Hydrated Barium Chloride
psub	0.31	kPa	297.35	Vapor Pressures of Hydrated Barium Chloride
psub	1.22	kPa	304.25	Vapor Pressures of Hydrated Barium Chloride
psub	0.90	kPa	304.55	Vapor Pressures of Hydrated Barium Chloride
psub	1.01	kPa	306.35	Vapor Pressures of Hydrated Barium Chloride
psub	1.31	kPa	306.95	Vapor Pressures of Hydrated Barium Chloride
psub	1.39	kPa	307.25	Vapor Pressures of Hydrated Barium Chloride
psub	1.04	kPa	307.35	Vapor Pressures of Hydrated Barium Chloride
psub	1.19	kPa	308.25	Vapor Pressures of Hydrated Barium Chloride

psub	1.30	kPa	309.45	Vapor Pressures of Hydrated Barium Chloride
psub	2.50	kPa	319.05	Vapor Pressures of Hydrated Barium Chloride
psub	2.66	kPa	321.15	Vapor Pressures of Hydrated Barium Chloride
psub	3.88	kPa	323.15	Vapor Pressures of Hydrated Barium Chloride
psub	3.85	kPa	323.45	Vapor Pressures of Hydrated Barium Chloride
psub	3.97	kPa	323.75	Vapor Pressures of Hydrated Barium Chloride
psub	4.05	kPa	324.15	Vapor Pressures of Hydrated Barium Chloride
psub	5.15	kPa	324.85	Vapor Pressures of Hydrated Barium Chloride
psub	5.10	kPa	325.55	Vapor Pressures of Hydrated Barium Chloride
psub	9.40	kPa	336.95	Vapor Pressures of Hydrated Barium Chloride
psub	13.59	kPa	343.65	Vapor Pressures of Hydrated Barium Chloride

## Sources

Enthalpies of Dilution for myo-Inositol in Aqueous Alkali Metal Salt and Alkaline Earth Metal Salt Solutions Found in Natural Waters from (5 to 90) °C  
 Study of Solvation Behavior of Some Biologically Active Compounds in Aqueous Barium Chloride Solution:

<https://www.doi.org/10.1021/je060492g>

Investigation of the aqueous salt solutions of some first and second group metal anions: densities, densities of myo-inositol in aqueous solutions of various concentrations of barium chloride

<https://www.doi.org/10.1021/je101012n>

<https://www.doi.org/10.1021/je400077c>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=B6000449&Units=SI>

<https://www.doi.org/10.1016/j.fluid.2008.02.014>

<https://www.doi.org/10.1016/j.tca.2009.01.003>

<https://www.doi.org/10.1021/je034012m>

## Legend

**psub:** Sublimation pressure

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