

# Rubidium chloride

|                      |                                                   |
|----------------------|---------------------------------------------------|
| Other names:         | rubidium chloride (RbCl)<br>rubidium monochloride |
| Inchi:               | InChI=1S/ClH.Rb/h1H;/q;+1/p-1                     |
| InchiKey:            | FGDZQCVHDSGLHJ-UHFFFAOYSA-M                       |
| Formula:             | RbCl                                              |
| SMILES:              | [Cl-].[Rb+]                                       |
| Mol. weight [g/mol]: | 120.92                                            |
| CAS:                 | 7791-11-9                                         |

## Physical Properties

| Property code | Value       | Unit | Source       |
|---------------|-------------|------|--------------|
| ea            | 0.54 ± 0.01 | eV   | NIST Webbook |
| ea            | 1.54        | eV   | NIST Webbook |
| ie            | 8.50 ± 0.03 | eV   | NIST Webbook |
| ie            | 8.20        | eV   | NIST Webbook |
| ie            | 8.30 ± 0.10 | eV   | NIST Webbook |
| ie            | 8.30 ± 0.10 | eV   | NIST Webbook |
| ie            | 8.50 ± 0.03 | eV   | NIST Webbook |
| ie            | 8.70        | eV   | NIST Webbook |

## Temperature Dependent Properties

| Property code | Value   | Unit  | Temperature [K] | Source                                                                                     |
|---------------|---------|-------|-----------------|--------------------------------------------------------------------------------------------|
| rhos          | 2578.40 | kg/m3 | 903.00          | Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point |
| rhos          | 2573.50 | kg/m3 | 913.00          | Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point |

|      |         |       |        |                                                                                            |
|------|---------|-------|--------|--------------------------------------------------------------------------------------------|
| rhos | 2567.80 | kg/m3 | 923.00 | Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point |
| rhos | 2562.20 | kg/m3 | 933.00 | Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point |
| rhos | 2556.10 | kg/m3 | 943.00 | Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point |
| rhos | 2551.70 | kg/m3 | 953.00 | Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point |
| rhos | 2548.60 | kg/m3 | 963.00 | Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point |
| rhos | 2547.60 | kg/m3 | 973.00 | Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point |
| rhos | 2550.30 | kg/m3 | 983.00 | Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point |
| rhos | 2556.40 | kg/m3 | 993.00 | Density of Crystalline Alkali Chlorides and Their Eutectic Mixtures Near the Melting Point |

## Correlations

| Information   | Value                         |
|---------------|-------------------------------|
| Property code | pvap                          |
| Equation      | $\ln(P_{vp}) = A + B/(T + C)$ |
| Coeff. A      | 1.42352e+01                   |



**pvap:** Vapor pressure  
**rhos:** Solid Density

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