

rubidium nitrate

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|----------------------|----------------------------------|
| Inchi: | InChI=1S/NO3.Rb/c2-1(3)4;/q-1;+1 |
| InchiKey: | RTHYXYOJKHGZJT-UHFFFAOYSA-N |
| Formula: | NO3Rb |
| SMILES: | O=[N+]([O-])[O-].[Rb+] |
| Mol. weight [g/mol]: | 147.47 |
| CAS: | 13126-12-0 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|-------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| hfus | 3.83 | kJ/mol | Determination of the Equilibrium Temperatures and Enthalpies of the Solid-Solid Transitions of Rubidium Nitrate by Differential Scanning Calorimetry |
| ie | 8.89 ± 0.03 | eV | NIST Webbook |
| tf | 582.65 | K | Crystallization of ionic salts for calibration of differential scanning calorimeters |
| tt | 583.00 | K | Heat capacities and enthalpies of fusion of lithium and rubidium nitrates. Heat capacities, enthalpies of fusion and enthalpies of formation of the intermediate compounds Ag _{0.5} Rb _{0.5} NO ₃ and Li _{0.5} Rb _{0.5} NO ₃ . |

Sources

Crystallization of ionic salts for calibration of differential scanning calorimeters
NIST Webbook:

<https://www.doi.org/10.1016/j.tca.2016.08.003>

Determination of the Equilibrium Temperatures and Enthalpies of the Solid-Solid Transitions of Rubidium Nitrate by Differential Scanning Calorimetry
Heat capacities, enthalpies of fusion and enthalpies of formation of the intermediate compounds Ag_{0.5}Rb_{0.5}NO₃ and Li_{0.5}Rb_{0.5}NO₃.

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C13126120&Units=SI>

<https://www.doi.org/10.1016/j.tca.2007.12.008>

<https://www.doi.org/10.1016/j.tca.2013.06.040>

Legend

| | |
|--------------|-------------------------------------------|
| hfus: | Enthalpy of fusion at standard conditions |
| ie: | Ionization energy |
| tf: | Normal melting (fusion) point |
| tt: | Triple Point Temperature |

Latest version available from:

<https://www.cheméo.com/cid/62-432-3/rubidium-nitrate.pdf>

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