

sodium hydroxide

Inchi: InChI=1S/Na.H2O/h;1H2/q+1;/p-1
InchiKey: HEMHJVSKTPXQMS-UHFFFAOYSA-M
Formula: HNaO
SMILES: O[Na]
Mol. weight [g/mol]: 40.00
CAS: 1310-73-2

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|--------|--------------|
| affp | 1071.80 | kJ/mol | NIST Webbook |
| basg | 1044.80 | kJ/mol | NIST Webbook |

Correlations

| Information | Value |
|-----------------------------|-------------------------------|
| Property code | pvap |
| Equation | $\ln(P_{vp}) = A + B/(T + C)$ |
| Coeff. A | 1.51741e+01 |
| Coeff. B | -1.75145e+04 |
| Coeff. C | 7.01000e+00 |
| Temperature range (K), min. | 773.15 |
| Temperature range (K), max. | 1873.15 |

Sources

Thermodynamics of the first and second proton dissociations from measurements and modeling of glutamic acid in aqueous sodium hydroxide solutions. <https://www.doi.org/10.1016/j.jct.2006.08.008>

Measurements and modeling of glutamic acid solubility in calcium sulfate dihydrate aqueous solutions. <https://www.doi.org/10.1016/j.fluid.2010.06.012>

Thermodynamic properties of sodium hydroxide dissociations from aqueous glycine at temperatures from 298.15 to 373.15 K. <https://www.doi.org/10.1016/j.jct.2005.06.017>

Thermodynamic properties of sodium hydroxide dissociations from aqueous glycine at temperatures from 298.15 to 373.15 K. <https://www.doi.org/10.1016/j.tca.2013.06.008>

Thermodynamic properties of sodium hydroxide dissociations from aqueous glycine at temperatures from 298.15 to 373.15 K. <https://www.doi.org/10.1021/acs.jced.5b00443>

Thermodynamic properties of sodium hydroxide dissociations from aqueous glycine at temperatures from 298.15 to 373.15 K. <https://www.doi.org/10.1016/j.tca.2008.03.009>

Legend

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.