

caesium hydroxide

Other names:	cesium hydroxide cesium hydroxide (Cs(OH))
Inchi:	InChI=1S/Cs.H2O/h;1H2/q+1;/p-1
InchiKey:	HUCVOHYBFXVBRW-UHFFFAOYSA-M
Formula:	CsHO
SMILES:	O[Cs]
Mol. weight [g/mol]:	149.91
CAS:	21351-79-1

Physical Properties

Property code	Value	Unit	Source
affp	1117.90	kJ/mol	NIST Webbook
basg	1092.20	kJ/mol	NIST Webbook
ie	7.40 ± 0.15	eV	NIST Webbook
ie	7.21 ± 0.14	eV	NIST Webbook

Sources

Knudsen cell mass spectrometric study of the Cs₂O(g) molecule
<https://www.doi.org/10.1016/j.jct.2013.05.032>
Thermochemistry of Cs(hydrogen phthalate) and Cs₂(terephthalate):
<https://www.doi.org/10.1016/j.tca.2005.01.024>
Thermochemistry of Li, Na, K, Rb and Cs alkylated phenoxides:
<https://www.doi.org/10.1016/j.tca.2005.02.027>
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C21351791&Units=SI>

Legend

affp: Proton affinity
basg: Gas basicity
ie: Ionization energy

Latest version available from:

<https://www.chemeo.com/cid/41-008-7/caesium-hydroxide.pdf>

Generated by Cheméo on 2024-04-25 09:00:32.778019162 +0000 UTC m=+16324881.698596490.

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