Creatine hydrate

Other names:	N-(aminoiminomethyl)-N-methyl-Glycine, monohydrate
	creatine monohydrate
	creatine, monohydrate
Inchi:	InChI=1S/C4H9N3O2.H2O/c1-7(4(5)6)2-3(8)9;/h2H2,1H3,(H3,5,6)(H,8,9);1H2
InchiKey:	MEJYXFHCRXAUIL-UHFFFAOYSA-N
Formula:	C4H11N3O3
SMILES:	CN(CC(=O)O)C(=N)N.O
Mol. weight [g/mol]:	149.15

Physical Properties

Property code	Value	Unit	Source
ss	234.30	J/mol×K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	213.59	J/mol×K	298.40	NIST Webbook

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Solution thermodynamics of creatine monohydrate in binary (water + ethanol) solvent systems at T = (278.15 to 328.15) K:	https://www.doi.org/10.1016/j.jct.2015.09.011
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6020877&Units=SI

Legend

cps:	Solid phase heat capacity

ss: Solid phase molar entropy at standard conditions