Magnesium acetate

Inchi: InChI=1S/2C2H4O2.Mg/c2*1-2(3)4;/h2*1H3,(H,3,4);/q;;+2/p-2
InchiKey: UEGPKNKPLBYCNK-UHFFFAOYSA-L
Formula: C4H6MgO4
SMILES: CC(=O)[O-].CC(=O)[O-].[Mg+2]
Mol. weight [g/mol]: 142.39

Physical Properties

Property code	Value	Unit	Source
af	0.1493		Cheméo Relay (1.0)
gf	-287.24	kJ/mol	Cheméo Relay (1.0, beta)
hf	-1233.84	kJ/mol	Cheméo Relay (1.0)
hvap	64.47	kJ/mol	Cheméo Relay (1.0)
ie	9.39	eV	Cheméo Relay (1.0)
log10ws	-0.18		Cheméo Relay (1.0)
pc	4114.22	kPa	Cheméo Relay (1.0, beta)
tb	640.51	K	Cheméo Relay (1.0)
tc	863.61	K	Cheméo Relay (1.0)
tf	365.63	K	Cheméo Relay (1.0)
vc	0.213	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	20.45	J/mol×K	310.02	NIST Webbook

Sources

Effect of magnesium acetate on the volumetric and transport behavior of some amino acids in aqueous solutions at 298.15 K:	https://www.doi.org/10.1016/j.jct.2005.12.002
Density, Ultrasonic Velocity, Electrical Conductivity, Viscosity, and Raman Spectra of Methanolic Mg(ClO4)2, Mg(NO3)2, and Mg(OAc)2 Solutions:	https://www.doi.org/10.1021/je800463k
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C142723&Units=SI
Thermodynamic and transport properties of L-serine and L-threonine in aqueous sodium acetate and magnesium acetate solutions at T = 298.15 K:	https://www.doi.org/10.1016/j.jct.2006.08.003

Volumetric Properties of Some a,w-Aminocarboxylic Acids in Aqueous Sodium Acetate and Magnesium Acetate Solutions at T = (288.15 to 318.15) K: https://www.doi.org/10.1021/je100476h

Densities, Ultrasonic Velocities, Viscosities, and Electrical Conductivities of Aqueous Solutions of $Mg(CH_3CO_2)_2$ and $Mg(NO_3)_2$: https://www.doi.org/10.1021/je060107n

Volumetric and Viscometric Studies of Some Metal Acetates in Aqueous Solutions at T) (288.15 to 318.15) K: https://www.doi.org/10.1021/je800326n

Chemeo Relay (1.0):
Chemeo Relay (1.0, beta):

Legend

af:	Acentric Factor
cps:	Solid phase heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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