

Potassium carbonate

Inchi:	InChI=1S/CH2O3.2K/c2-1(3)4;;/h(H2,2,3,4);;/q;2*+1/p-2
InchiKey:	BWHMMNNQKKPAPP-UHFFFAOYSA-L
Formula:	CK2O3
SMILES:	O=C(O[K])O[K]
Mol. weight [g/mol]:	138.21

Physical Properties

Property code	Value	Unit	Source
tt	1171.15	K	Fusion characterization of biomass ash

Sources

Measurement and Correlation of Phase Diagram Data for Aqueous Two-Phase Systems by Adding or K⁺ Salts as Constituent of the Aqueous Dimethyl Phosphate Systems Equilibrium Partitioning of Organic Compounds Between Aqueous and Organic Phases in the Ternary System for the ternary system

Recovery of CO₂ from industrial waste based on Solid-Liquid Equilibrium of the Phases K₂CO₃-H₂O biphasic systems based on emulsion characterization of homocysteine: ash:

Creating efficient novel aqueous two-phase systems: Salting-out effect and hydrogen bonding based on Potassium Carbonate:

Phase Diagram Data for Several Salt + Salt Aqueous Biphasic Systems at 298 K Effect on Ethanol-Based Aqueous Biphasic Systems Applied to Alkaloids Influence of Selected potassium salts on thermal stability of ammonium

Aqueous biphasic systems involving alkylsulfate-based ionic liquids: Phase Diagram of [Amim]Cl + Salt Aqueous Biphasic Systems and Its Study on the Phase Diagram of Na⁺, K⁺/Cl⁻, CO₃²⁻-H₂O and Single-Salt of Potassium Separation with the Aid of 1-(2-methoxyethyl)-3-methylimidazolium bromide ionic liquid

Phase Diagram of Potassium Carbonate + Organic Acid in Aqueous Two-Phase System

Phase Diagram of Water Aqueous two-phase aqueous two-phase systems: Phase diagrams and partition of purine diphosphate from aqueous

Phase Diagram of a ternary liquid-based aqueous biphasic system capacities of aqueous biphasic systems for potassium carbonate

Extraction Performance of Aqueous Biphasic Systems at 1–1278.15 to 393.15 K and at the Pressures of 0.1–0.5 MPa of Water, Cholinium Carboxylate Ionic Liquids and K₂CO₃:

<https://www.doi.org/10.1021/je2004758>

<https://www.doi.org/10.1021/acs.jced.9b00526>

<https://www.doi.org/10.1016/j.fluid.2017.08.006>

<https://www.doi.org/10.1016/j.jct.2017.01.001>

<https://www.doi.org/10.1021/acs.jced.7b00998>

<https://www.doi.org/10.1016/j.fluid.2018.01.016>

<https://www.doi.org/10.1016/j.tca.2016.06.008>

<https://www.doi.org/10.1016/j.fluid.2019.03.002>

<https://www.doi.org/10.1016/j.tca.2013.10.028>

<https://www.doi.org/10.1021/je7000478>

<https://www.doi.org/10.1021/acs.jced.8b01024>

<https://www.doi.org/10.1016/j.tca.2019.178313>

<https://www.doi.org/10.1016/j.jct.2011.04.024>

<https://www.doi.org/10.1021/je900009a>

<https://www.doi.org/10.1021/acs.jced.9b00367>

<https://www.doi.org/10.1016/j.fluid.2013.11.046>

<https://www.doi.org/10.1021/acs.jced.9b00293>

<https://www.doi.org/10.1016/j.jct.2017.10.017>

<https://www.doi.org/10.1016/j.jct.2003.12.008>

<https://www.doi.org/10.1016/j.jct.2013.10.024>

<https://www.doi.org/10.1021/acs.jced.9b00452>

Solubility of CO₂ in Aqueous Solutions of KCl and in Aqueous Solutions of R₂CO₃ diagrams of aqueous biphasic systems composed of ionic liquids and liquid-liquid equilibria in different mixtures of Alkylmethylimidazolium Chloride with Potassium Carbonate (carbon-based ionic liquids) Properties of Aqueous [C₁mim][Cl] Systems; Density and Solubility of CO₂ in Aqueous Solutions of (Potassium Carbonate) Sodium Bicarbonate Systems at Different Temperatures; Water at Different Temperatures; Measurements of correlation: transition temperature mixture (deep eutectic solvents) based on tartrate potassium carbonate with water biphasic systems containing selected ionic liquids in aqueous and aqueous biphasic systems composed of Electrolyte conductivity of Electrolytes Found in Natural Waters from (5 to 80) °C and in the presence of salts: Exclusion, and Phase Separation in Aqueous Solutions of Chitosan for CO₂ capture processes using Potassium Carbonate and CO₂ aqueous solution liquid equilibria for some Aliphatic Alcohols + Water + K₂CO₃ Systems:

<https://www.doi.org/10.1021/je060430q>
<https://www.doi.org/10.1016/j.fluid.2016.02.015>
<https://www.doi.org/10.1021/acs.jced.5b00948>
<https://www.doi.org/10.1016/j.jct.2010.03.010>
<http://webbook.nist.gov/cgi/cbook.cgi?ID=B6000504&Units=SI>
<https://www.doi.org/10.1021/je300782p>
<https://www.doi.org/10.1016/j.fluid.2009.10.020>
<https://www.doi.org/10.1016/j.jct.2017.11.008>
<https://www.doi.org/10.1016/j.fluid.2013.09.028>
<https://www.doi.org/10.1021/je700315u>
<https://www.doi.org/10.1016/j.jct.2012.05.004>
<https://www.doi.org/10.1021/je101012n>
<https://www.doi.org/10.1021/je900681b>
<https://www.doi.org/10.1016/j.jct.2016.07.026>
<https://www.doi.org/10.1021/je050515b>

Legend

tt: Triple Point Temperature

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