

# Potassium sulfate

Other names:	dipotassium sulfate sulfuric acid, dipotassium salt sulfuric acid, potassium salt
Inchi:	InChI=1S/2K.H2O4S/c;;1-5(2,3)4/h;;(H2,1,2,3,4)/q2*+1;/p-2
InchiKey:	OTYBMLCTZGSZBG-UHFFFAOYSA-L
Formula:	K2O4S
SMILES:	O=S(=O)(O[K])O[K]
Mol. weight [g/mol]:	174.26

## Physical Properties

Property code	Value	Unit	Source
tt	1343.15	K	Fusion characterization of biomass ash

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
psub	1.81e-04	kPa	1239.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.67e-04	kPa	1241.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	2.94e-04	kPa	1243.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry

psub	1.86e-04	kPa	1244.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.77e-04	kPa	1244.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	2.82e-04	kPa	1244.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	3.47e-04	kPa	1250.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	3.26e-04	kPa	1258.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	3.68e-04	kPa	1259.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	4.47e-04	kPa	1260.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry

psub	5.65e-04	kPa	1264.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	5.20e-04	kPa	1267.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	5.14e-04	kPa	1272.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	5.76e-04	kPa	1272.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	6.55e-04	kPa	1275.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	7.89e-04	kPa	1283.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	9.28e-04	kPa	1283.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry

psub	7.48e-04	kPa	1283.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	7.70e-04	kPa	1287.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	8.79e-04	kPa	1287.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	9.33e-04	kPa	1290.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	8.53e-04	kPa	1292.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.09e-03	kPa	1297.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.09e-03	kPa	1300.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry

psub	1.46e-03	kPa	1306.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.56e-03	kPa	1311.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.47e-03	kPa	1313.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	2.26e-05	kPa	1193.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	3.27e-05	kPa	1202.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	4.59e-05	kPa	1214.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	6.12e-05	kPa	1224.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry

psub	4.27e-05	kPa	1218.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	6.17e-05	kPa	1233.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	5.98e-05	kPa	1225.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.00e-04	kPa	1243.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	7.45e-05	kPa	1238.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	6.97e-05	kPa	1235.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	9.71e-05	kPa	1250.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry

psub	9.58e-05	kPa	1240.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.52e-04	kPa	1259.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.19e-04	kPa	1255.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.09e-04	kPa	1253.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.54e-04	kPa	1269.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.62e-04	kPa	1260.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.62e-04	kPa	1273.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry

psub	1.92e-04	kPa	1273.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	2.44e-04	kPa	1287.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	2.78e-04	kPa	1281.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	4.59e-04	kPa	1302.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	3.74e-04	kPa	1292.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	3.66e-04	kPa	1303.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	3.98e-04	kPa	1300.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry



psub	6.04e-04	kPa	1315.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	5.35e-04	kPa	1309.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	6.59e-04	kPa	1318.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	8.55e-04	kPa	1330.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	8.30e-04	kPa	1326.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	4.07e-05	kPa	1201.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	4.47e-05	kPa	1212.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry

psub	5.84e-05	kPa	1214.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
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psub	1.95e-04	kPa	1254.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry

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psub	3.02e-04	kPa	1272.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	3.42e-04	kPa	1276.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
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psub	1.42e-03	kPa	1332.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.41e-03	kPa	1336.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	9.75e-05	kPa	1228.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	5.83e-05	kPa	1207.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.73e-04	kPa	1246.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry

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psub	1.67e-04	kPa	1245.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.61e-04	kPa	1244.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	4.52e-04	kPa	1282.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	2.79e-04	kPa	1264.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	2.66e-04	kPa	1263.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry

psub	5.91e-04	kPa	1300.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	4.54e-04	kPa	1283.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	4.13e-04	kPa	1280.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	6.55e-04	kPa	1302.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	5.99e-04	kPa	1296.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.09e-03	kPa	1325.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
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psub	2.83e-04	kPa	1255.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	2.81e-04	kPa	1258.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
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psub	7.53e-04	kPa	1300.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	7.79e-04	kPa	1301.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	8.51e-04	kPa	1305.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	8.80e-04	kPa	1305.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	8.11e-04	kPa	1305.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry

psub	9.06e-04	kPa	1308.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.00e-03	kPa	1314.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry

## Sources

**Solubility of Oxygen in Aqueous Solutions of KCl, K<sub>2</sub>SO<sub>4</sub>, and CaCl<sub>2</sub> as a Function of Concentration and Temperature**  
**Aqueous K<sub>2</sub>SO<sub>4</sub> Solutions at Temperatures Selected for Potassium Salt and Thermal Stability of Ammonium Salts of Sodium, Potassium, and Copper(II) Sulfates in Ethanol-Water Solutions**  
**Intermolecular/interionic interactions in L-isoleucine-, L-proline-, and L-glutamine-based complexes and phase diagram for the reciprocal miscibility of such a mixture of L-isoleucine and Potassium Chloride and Potassium Sulfate in aqueous glycerol**  
**Isolation of L-isoleucine + Aqueous K<sub>2</sub>SO<sub>4</sub> and/or Systems in 250:1:1:1 - Glycerol: Sulphate Binary System by Kinetic Crystallization Spectroscopy: Found in Natural Waters from (5 to 90) °C**  
**NIST Webbook:**

<https://www.doi.org/10.1021/je034031w>

<https://www.doi.org/10.1007/s10765-005-5567-5>

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

<https://www.doi.org/10.1021/je100979d>

<https://www.doi.org/10.1016/j.ijct.2006.03.009>

<https://www.doi.org/10.1016/j.fluid.2016.09.005>

<https://www.doi.org/10.1021/je200238s>

<https://www.doi.org/10.1021/je200146i>

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

<https://www.doi.org/10.1021/ie101012n>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=B6000543&Units=SI>

Investigation of Solid Liquid Equilibria on the System  $\text{Na}^+ \cdot \text{K}^+/\text{Cl}^- \cdot \text{SO}_4 \cdot 2\text{H}_2\text{O}$  at  $p = 0.1$  K: Compressibilities of Aqueous Two-Phase Systems with thermally sensitive PEO copolymer (Alkyl) ampergates. Effect of the thermodynamic model for the Na<sup>+</sup>·K<sup>+</sup>·SO<sub>4</sub>·2H<sub>2</sub>O ternary system. Phase diagrams between  $p = 0.1$  K and  $p = 0.1$  K. Experimental heat capacity data for the Na<sup>+</sup>·K<sup>+</sup>·SO<sub>4</sub>·2H<sub>2</sub>O ternary system. Data in the preparation process of K<sub>2</sub>SO<sub>4</sub>·2H<sub>2</sub>O for the systems K<sub>2</sub>SO<sub>4</sub>·2H<sub>2</sub>O·K<sub>2</sub>SO<sub>4</sub>·2H<sub>2</sub>O and Na<sub>2</sub>SO<sub>4</sub>·2H<sub>2</sub>O·K<sub>2</sub>SO<sub>4</sub>·2H<sub>2</sub>O phase equilibria for the ternary system (Li<sub>2</sub>SO<sub>4</sub> + K<sub>2</sub>SO<sub>4</sub> + 2H<sub>2</sub>O) at  $p = 0.1$  K and  $p = 0.1$  K. Tuning physical properties and mesomorphic structures in aqueous 2-ethyl-1-hydroxy-5-naphthyl-3-sulfonate for the ternary system K<sub>2</sub>SO<sub>4</sub>·2H<sub>2</sub>O + salt Na<sub>2</sub>SO<sub>4</sub>·2H<sub>2</sub>O and Na<sub>2</sub>SO<sub>4</sub>·2H<sub>2</sub>O. Potassium Sulfate, and Aluminum Sulfate in Water and the Ternary Systems (K<sub>2</sub>SO<sub>4</sub>·2H<sub>2</sub>O + Na<sub>2</sub>SO<sub>4</sub>·2H<sub>2</sub>O) and (K<sub>2</sub>SO<sub>4</sub>·2H<sub>2</sub>O + Na<sub>2</sub>SO<sub>4</sub>·2H<sub>2</sub>O) at  $p = 0.1$  K and  $p = 0.1$  K. Solutions of Phase Equilibria in K<sub>2</sub>SO<sub>4</sub>·2H<sub>2</sub>O + Na<sub>2</sub>·K<sup>+</sup>/SO<sub>4</sub>(2-)-(CH<sub>2</sub>OH)<sub>2</sub>-H<sub>2</sub>O and Na<sub>2</sub>·K<sup>+</sup>/SO<sub>4</sub>(2-)-(CH<sub>2</sub>OH)<sub>2</sub>-H<sub>2</sub>O at  $p = 0.1$  K and  $p = 0.1$  K. Activity in the Potassium Sulfate + Water + 1-Propanol System at Different Temperatures:

<https://www.doi.org/10.1021/acs.iced.5b00992>

<https://www.doi.org/10.1007/s10765-013-1432-0>

<https://www.doi.org/10.1016/j.jct.2017.01.009>

<https://www.doi.org/10.1021/acs.iced.7b00265>

<https://www.doi.org/10.1021/acs.jced.7b00219>

<https://www.doi.org/10.1016/j.fluid.2017.04.010>

<https://www.doi.org/10.1021/acs.jced.6b00926>

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Stable (solid + liquid) phase equilibrium for the ternary systems ( $\text{K}_2\text{SO}_4 + \text{KHSO}_4 + \text{H}_2\text{O}$ ) and ( $\text{K}_2\text{SO}_4 + \text{KHSO}_4 + \text{H}_2\text{O}$ ) Systems ( $\text{K}_2\text{SO}_4 + \text{K}_2\text{B}_4\text{O}_7 + \text{H}_2\text{O}$  and  $\text{Na}_2\text{SO}_4 + \text{Na}_2\text{B}_4\text{O}_7 + \text{H}_2\text{O}$ ) Temperature Type of Salt, and Alcohol on Phase Diagrams of Mineral Salts in Organic and Aqueous Two-Phase Systems: Experimental Determination of Phase Equilibrium in the System  $\text{K}_2\text{SO}_4 - \text{MgSO}_4 - \text{H}_2\text{O}$  at 298 K and the Critical  $\text{MgSO}_4$  Aqueous Solutions of Alanine/L- Glutamine/Glycylglycine from Equilibrium in 2 molal Aqueous System  $\text{K}_2\text{SO}_4 - \text{MgSO}_4 - \text{H}_2\text{O}$  Aqueous Solution of  $\text{K}_2\text{SO}_4$  in the Quaternary System  $\text{K}^+//\text{H}_2\text{PO}_4^-$ ,  $\text{SO}_4^{2-}$  and  $\text{H}_2\text{O}$  at 298 K and the Quaternary system  $\text{K}_2\text{SO}_4 - \text{MgSO}_4 - (\text{NH}_4)_2\text{SO}_4 - \text{H}_2\text{O}$  for the determination of the osmotic and activity coefficients of the  $\text{K}_2\text{SO}_4$  Solid-Liquid phase equilibrium in aqueous solutions of four common fertilizers at 300 K and the dependence of vapor pressures over Saturated Aqueous Solutions of a mixture of high salinity potassium solutions of 3 ternary solid-liquid phase equilibria in the systems  $\text{K}_2\text{SO}_4 - \text{MgSO}_4 - \text{H}_2\text{O}$  ( $\text{M}^+ = \text{K}^+$ ,  $\text{Na}^+$ ) for the prediction of enhanced temperature and Ammonium Sulfates in Equilibrium and Modeling of Vapor-Liquid Equilibria for Electrolyte Systems of the quaternary system  $\text{K}^+$ ,  $\text{NH}_4^+//\text{Cl}^-$ ,  $\text{SO}_4^{2-}$ - $\text{H}_2\text{O}$  at 270 K and the determination and modelling of the solubilities of sodium Monocarbonate and Prediction of Solid + Liquid Equilibria in the Quaternary System  $\text{LiClO}_4 - \text{Li}_2\text{SO}_4 - \text{K}_2\text{SO}_4 - \text{H}_2\text{O}$  at modelling of the solubility phase equilibria of ternary System Sulfates in 2 molal  $\text{K}_2\text{SO}_4$  Water Solutions: 15 K: Solubility of salicylic acid in water + salt ( $\text{NaCl}$ ,  $\text{KCl}$ ,  $\text{NaBr}$ ,  $\text{Na}_2\text{SO}_4$  and  $\text{K}_2\text{SO}_4$ ) at 293.5 to 313.3 K:

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## Legend

**p<sub>sub</sub>:** Sublimation pressure

**tt:** Triple Point Temperature

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