

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
psub	7.58e-05	kPa	1221.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
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psub	1.45e-04	kPa	1248.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.95e-04	kPa	1254.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry

psub	2.19e-04	kPa	1259.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	2.61e-04	kPa	1268.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	2.99e-04	kPa	1268.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
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
psub	4.33e-04	kPa	1286.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	5.20e-04	kPa	1288.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry

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psub	7.95e-04	kPa	1309.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	8.82e-04	kPa	1314.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.02e-03	kPa	1320.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry

psub	1.19e-03	kPa	1325.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.28e-03	kPa	1330.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
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

psub	9.50e-05	kPa	1223.00	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
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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
psub	9.16e-04	kPa	1318.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry

psub	9.29e-04	kPa	1317.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.48e-03	kPa	1341.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.34e-03	kPa	1334.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.56e-03	kPa	1343.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.46e-03	kPa	1335.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.94e-03	kPa	1355.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.74e-03	kPa	1349.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry

psub	1.72e-03	kPa	1347.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	2.02e-03	kPa	1359.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.92e-03	kPa	1352.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.20e-04	kPa	1227.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	1.33e-04	kPa	1228.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
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psub	2.09e-04	kPa	1247.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	2.17e-04	kPa	1248.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
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
psub	3.44e-04	kPa	1265.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	3.60e-04	kPa	1267.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	3.79e-04	kPa	1268.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry

psub	3.50e-04	kPa	1268.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	3.90e-04	kPa	1271.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	4.63e-04	kPa	1277.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	5.29e-04	kPa	1281.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	5.11e-04	kPa	1283.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	6.29e-04	kPa	1287.00	Investigation of Potassium Sulphate - Calcium Sulphate Binary System by Knudsen Effusion Mass Spectrometry
psub	5.67e-04	kPa	1288.00	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

Solid Liquid Equilibria in the Quaternary System $K_2SO_4-H_2PO_4-H_2O$, SO_4^{2-} and $H_2PO_4^-$ Equilibria in the Quaternary Systems $KCl-K_2B_4O_7-K_2SO_4-H_2O$ and $MgCl_2-MgSO_4-H_2O$ at 273 K: salt (NaCl, KCl, NaBr, Na_2SO_4 and K_2SO_4) physical properties and mesomorphic structures in aqueous solutions; methylenediazolium salts in binary and ternary systems; liquid-liquid phase equilibria of sodium acetate and sodium formate; Sulfates in Ethanol-Water binary equilibrium of the quaternary system $K_2SO_4-MgSO_4-(NH_4)_2SO_4-H_2O$ at normal Conductivity and Viscosity of Aqueous K_2SO_4 Solutions at Temperatures from 298 to 575K and at Pressures up to 30MPa: Mineral solubilities of salts in the three quaternary systems: $LiCl-NaCl-KCl-MgSO_4$ - Sodium Sulphate - Calcium Sulphate Binary System by KNO_3 and $NaNO_3$ as Salts in Equilibrium: on the System $NaCl-KCl-H_2O$ stable solid/solid + liquid equilibrium for the ternary systems ($K_2SO_4 + H_2O$ or $H_2O + H_2SO_4$ as a component) on thermal stability of ammonium nitrate; Thermal Conductivity of Electrolytes Found in Natural Waters from (5 to 90) °C; Inter-molecular/inter-ionic interactions in L-isoleucine-, L-proline-, and Methionine-aqueous solution; Solid + Liquid Equilibria in the Quaternary System Equilibrium of $2NaCl-H_2SO_4-H_2O$ at 298 K; $Li_2SO_4-Li_2B_4O_7-H_2O$ and $Li_2SO_4-K_2B_4O_7-H_2O$ Ternary System $K_2SO_4 + KCl + H_2O$ in Aqueous Solution at 303 K; Equilibria in aqueous solutions of four common fertilizers at 298 K and at higher pressures: Solutions of KCl, K_2SO_4 , and $CaCl_2$ as electrolytes; Measurement and Correlation of Solubilities of Potassium Chloride and Potassium Sulfate in Aqueous Glycerol Solutions;

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Legend

p_{sub}: Sublimation pressure
t_t: Triple Point Temperature

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