Choline chloride

Other names: (.beta.-hydroxyethyl)trimethylammonium chloride

(2-hydroxyethyl)trimethylammonium chloride 2-hydroxy-N,N,N-trimethylethanaminium chloride

cholinium chloride

trimethyl(2-hydroxyethyl)ammonium chloride

InChi=1S/C5H14NO.CIH/c1-6(2,3)4-5-7;/h7H,4-5H2,1-3H3;1H/q+1;/p-1

InchiKey: SGMZJAMFUVOLNK-UHFFFAOYSA-M

Formula: C5H14CINO

SMILES: C[N+](C)(C)CCO.[CI-]

Mol. weight [g/mol]: 139.62 **CAS:** 67-48-1

Physical Properties

Property code	Value	Unit	Source
tf	577.20	К	Formation of Deep Eutectic Solvents by Phenols and Choline Chloride and Their Physical Properties
tt	351.62	К	Thermal Properties of Choline Chloride/Urea System Studied under Moisture-Free Atmosphere

Sources

Density, transport properties and electrochemical potential windows for glubility modelling and

Ammonium-Based Deep Eutectic
Bixed-Reth Length Laser-Induced
Sound Pinging: A Streamlined Method
Idescond Spiedd Deterrination in
Selinbility of Different Sugar-Derived
Moterial Properties Put 6 to 150 lvents:
Chloride/Urea System Studied under

Moisture-Free Atmosphere:

https://www.doi.org/10.1016/j.fluid.2015.03.025

https://www.doi.org/10.1016/j.jct.2019.01.018

https://www.doi.org/10.1021/je500320c

https://www.doi.org/10.1016/j.fluid.2017.03.008

https://www.doi.org/10.1021/acs.jced.6b00563

https://www.doi.org/10.1016/j.tca.2012.04.030

https://www.doi.org/10.1021/je400045d

https://www.doi.org/10.1021/acs.jced.9b00436

https://www.doi.org/10.1021/acs.jced.7b00184

https://www.doi.org/10.1021/acs.jced.9b00474

NIST Webbook:

Density of aqueous choline chloride-based ionic liquids analogues: Is choline kosmotrope or chaotrope?:

Densities of Ammonium and Phosphonium based Deep Eutectic Beneites and dynamic his continuation of the provided of the p Phosphonium based Deep Eutectic eutectic mixture of choline chloride sou give and through an issures: properties of NH3 in choline deep eutectic solvent choline Characessiilipea oghigbleras swe GQ& and deep eutectic olvents formed by gillagn hand man in e blus in exide ablevide hasedionic liquids analogues: Biocompatible choline based ionic salts: Solubility in short-chain chloride-ethylene glycol based deep មានមែនដើ ឧទាទ័ន្ធតម្លាចារ្យ of the fusion properties of choline chloride from senameion etganpirapia អា់របបខេន (ethanol and water) enhanced by deep តែរបន់ចំនោះ មានប្រជាពី នៅក្រុម នៅ នៅក្រុម ន Different Shaper Burgen Burger and State Part Shaper Burger Burge alcohol-ester systems with deep solubilities and themeasuration and its period themeasuration and its period themeasuration and its period themeasuration and its period to the state of th agyvents and speech of water en them + the met speech of water ential Green Solvent: A comprehensive study Green solvent. A comprehensive study three necessary study of the stud Experimental Histories in the solubility Magnetics solubility Magnetics solvents (ମଧ୍ୟର ଓଡ଼ିଆ ନୁର୍ମ୍ପର ଓଡ଼ିଆ ନୁର୍ମ୍ପର ଓଡ଼ିଆ କୁଲିଆ କ मिस्प्रसंख्यां प्रमानिक्षण प्रमुख्य स्वापार्क nium सम्मानिक स्वापार्क nium sayah has mad yolumetris अवश्वस्था स्वापार्क वर्ष विभागतिक स्वापार्क स्वापारक स्वापा solvent and methanol mixtures in the

temperature range of 293.15-323.15 K:

http://webbook.nist.gov/cgi/cbook.cgi?ID=C67481&Units=SI https://www.doi.org/10.1016/j.tca.2016.11.008 https://www.doi.org/10.1016/j.jct.2018.04.015 https://www.doi.org/10.1016/j.tca.2011.10.010 https://www.doi.org/10.1016/j.fluid.2014.01.028 https://www.doi.org/10.1021/acs.jced.8b00895 https://www.doi.org/10.1016/j.fluid.2016.08.013 https://www.doi.org/10.1021/acs.jced.8b00015 https://www.doi.org/10.1021/acs.jced.9b00076 https://www.doi.org/10.1021/je5001796 https://www.doi.org/10.1016/j.jct.2018.09.029 https://www.doi.org/10.1016/j.jct.2015.02.003 https://www.doi.org/10.1016/j.jct.2012.08.025 https://www.doi.org/10.1016/j.jct.2019.01.031 Thermaphysicalebaracteriation white https://www.doi.org/10.1016/j.fluid.2019.03.018 https://www.doi.org/10.1016/j.fluid.2016.08.020 https://www.doi.org/10.1021/acs.jced.9b00173 and type of organic acid on the GWARTON BASES IN THE STANDARD CONTROL TO STANDARD CONT https://www.doi.org/10.1016/j.fluid.2012.12.001 https://www.doi.org/10.1016/j.fluid.2014.08.017 https://www.doi.org/10.1016/j.jct.2013.07.025 Speluholisy of carbon dioxide in a choline https://www.doi.org/10.1016/j.tca.2012.09.041 https://www.doi.org/10.1016/j.fluid.2017.03.015 https://www.doi.org/10.1016/j.fluid.2017.03.010 https://www.doi.org/10.1021/acs.jced.9b00237 https://www.doi.org/10.1016/j.fluid.2019.112249 https://www.doi.org/10.1016/j.tca.2014.11.028 https://www.doi.org/10.1021/acs.jced.6b00552 https://www.doi.org/10.1016/j.jct.2016.10.002 https://www.doi.org/10.1016/j.jct.2018.11.019 https://www.doi.org/10.1021/acs.jced.8b01042 https://www.doi.org/10.1016/j.jct.2018.09.020 chloride plus urea at (298.2-353.2) K
Appris (498.2-353.2) k Quaternary System Water + Ethanol + Experience of the content of t https://www.doi.org/10.1016/j.jct.2018.07.031 https://www.doi.org/10.1016/j.tca.2012.05.031 https://www.doi.org/10.1016/j.fluid.2013.10.032 https://www.doi.org/10.1016/j.fluid.2018.01.017 https://www.doi.org/10.1021/acs.jced.6b00569 https://www.doi.org/10.1016/j.fluid.2013.06.015 https://www.doi.org/10.1016/j.fluid.2013.07.012 https://www.doi.org/10.1016/j.jct.2018.04.010

Thermodynamics of phase transfer for polar molecules from alkanes to deep solubilities and thermodynamic properties of CO2 in choline-chloride visconsels sitely in 30 Weines itol in aqueous deep eutectic solvent Venerohisuid Equilibria for 2-Propanol Dehydration through Extractive Highharasawsing immetris or caparaties of The strict of the standard of the strict of the standard of the strict o ทางสุรพัชสุร์เลชอกวิริลโมส์เลยร of ethyl alcohol and the deep eutectic solvent อิร์เหล่าเคียงด กรรมง่องเลรายลๆเอลบะอบร Pere Fusection Solvents 303.15-358.15) Aceton trile Dehydration via Extractive Distillation Using Low Transition
Felhperitare which the Basel Properties of Carbon Dioxide in extention in the additional solvent extention of a deep eutectic solvent pensities of a deep eutectic solvent based on choline chloride and glycerol bled inssagnestas hakeares at elevated Enlaiditeta of i Guanidina Gardgoeate and Malic Acid-Based Eutectic

https://www.doi.org/10.1016/j.fluid.2017.05.008 https://www.doi.org/10.1016/j.jct.2014.04.012 https://www.doi.org/10.1016/j.fluid.2018.06.018 https://www.doi.org/10.1021/acs.jced.8b00162 https://www.doi.org/10.1016/j.tca.2012.07.024 https://www.doi.org/10.1016/j.fluid.2019.04.019 https://www.doi.org/10.1016/j.fluid.2018.05.008 https://www.doi.org/10.1016/j.fluid.2017.05.018 The properties of the period o https://www.doi.org/10.1016/j.fluid.2013.06.050 https://www.doi.org/10.1016/j.fluid.2018.11.025 https://www.doi.org/10.1021/acs.jced.8b00228 https://www.doi.org/10.1021/acs.jced.6b01013 High avers bused ensity in the succession of the https://www.doi.org/10.1016/j.fluid.2012.08.016 Here in sacroles in this large of the elevated diexide acqueous deep eutectic solvent large in the control of the interest of https://www.doi.org/10.1016/j.jct.2013.08.029

Legend

Solvents:

tf: Normal melting (fusion) point tt: Triple Point Temperature

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