Liquid-liquid equilibria for the ternary system {water + methyl isopropyl ketone + imidazolium-based ionic liquids} at 298.15 K and atmospheric pressure

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Industrially, Molybdenum(Mo) is a valuable alloying agent, as it contributes to the hardenability and toughness of quenched and tempered steels. It also improves the strength of steel at high temperatures. Mo used in alloys, electrodes and catalysts. Also, Mo helps in keeping our environment green by desulfurizing carbon-based fossil fuels. Therefore, the use of Mo in various fields is very important. To enhance the extraction of Mo, the ionic-liquid are used for diluent. The properties of a ionic liquid are Particularly significant the low vapor pressures in most instances which contrast the environmental problems of volatile organic solvents and moderate specific conductivities, usually in the same range as those of aqueous electrolytes.
the LLE data are reported for the following systems at 298.15 K: {water + methyl isopropyl ketone + imidazolium-based ionic liquids}. The experimental LLE data have been correlated using the non-random two-liquid (NRTL) G^E model.