

Dependencies of alkali organic compounds in gas and fluid phases on energy parameters

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Abstract

For a number of amines, alcohols, carbonyl compounds, carboxylic acids and halogenated alkanes there have been obtained dependences of the basicity in the gas phase on the ionization potential of molecules of bases and electrical charges of some atoms of cations. For the liquid phase dependence of the basic properties of a number of amines on the structural and energy parameters are of more complex character and include factors reflecting the peculiarity of molecular motion in the liquid.