

Correlation of the Solubility of 4,4'-Isopropylidenediphenol with Solvent Properties

S. D. Bryk, R. G. Makitra, and O. Ya. Pal'chikova

Institute of Geology and Geochemistry of Fossil Fuels, National Academy of Sciences of Ukraine, Lviv, Ukraine

Received November 3, 2003

Abstract—Data on the solubility of 4,4'-isopropylidenediphenol in organic solvents can be quantitatively correlated with a linear three-parameter equation. The parameters exerting a decisive effect on the solubility are the polarity and basicity of solvents, favoring formation of intermolecular hydrogen bonds. At the same time, an increase in the cohesion energy of the medium decreases the solubility of the title compound.