

Title (en)

METHOD AND APPARATUS FOR SILOXANE MEASUREMENTS IN A BIOGAS

Title (de)

VERFAHREN UND VORRICHTUNG FÜR SILOXANMESSUNGEN IN EINEM BIOGAS

Title (fr)

PROCÉDÉ ET APPAREIL DESTINÉS À DES MESURES DE SILOXANE DANS UN BIOGAZ

Publication

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Application

EP 13704840 A 20130117

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Abstract (en)

[origin: WO2013109728A1] A method is provided for monitoring one or more silicon-containing compounds present in a biogas, in particular siloxane and trimethyl-silanol. The method includes generating a first absorption spectrum based on a ratio of a first spectral measurement and a second spectral measurement. The first spectral measurement is from a non-absorptive gas having substantially no infrared absorptions in a specified wavelength range of interest and the second spectral measurement is from a sample gas comprising the biogas. The method includes generating at least one surrogate absorption spectrum based on, at least, individual absorption spectrum for each of a subset of one or more silicon-containing compounds selected from a larger set of known silicon-containing compounds with known concentrations. A total concentration of the one or more silicon-containing compounds in the biogas can be calculated based on the first absorption spectrum and the at least one surrogate absorption spectrum.

IPC 8 full level

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See references of WO 2013109728A1

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