

Specific polyisobutene amines and use thereof as detergents in fuels

Abstract

- 5 Polyisobuteneamines of the general formula $R^1-CH_2-NR^2R^3$ in which R^1 is a polyisobutyl radical which is derived from isobutene and up to 20% by weight of n-butene and has a number-average molecular weight M_n of from 600 to 770, and R^2 and R^3 are each
- 10 independently hydrogen, a C_1-C_{18} -alkyl, C_2-C_{18} -alkenyl, C_4-C_{18} -cycloalkyl, C_1-C_{18} -alkylaryl, hydroxy- C_1-C_{18} -alkyl, poly(oxyalkyl), polyalkylenepolyamine or polyalkyleneimine radical or, together with the nitrogen atom to which they are bonded, are a heterocyclic ring are suitable as detergents in gasoline fuels, reduce valve sticking and improve the compatibility of the detergents with carrier oils and compatibility in fuel compositions which comprise a mineral fuel content and C_1-C_4 -alkanols.