High-reactivity polyisobutylene having a high content of vinylidene double bonds in the side chains

Abstract

A polyisobutylene having a total content of vinylidene double bonds of more than 50 mol% and a number-average molecular weight of 500 to 10 000 daltons, where at least 10% of all the vinylidene double bonds in the polyisobutylene are part of one or more side chains composed of at least 2 carbon atoms from the main polyisobutylene chain. Such a polyisobutylene is suitable for production of fuel and lubricant additives.