[0007] Similarly, the international application WO2012005897 discloses the alkoxylation of alcohols by DMC catalysis, comprising first of all the addition of OP blocks and only subsequently the addition of OE blocks.

[0008] The absence of large amounts of alcohol alkoxylates on the market currently suggests that DMC catalysis seems today difficult to implement industrially, in particular on alcohol-type substrates, whereas this type of catalysis might make it possible to obtain alkoxylates with entirely noteworthy properties, in particular alcohol alkoxylates capped in the terminal position (or end-capped).

[0009] Some end-capped alkoxylates have already been described, such as, for example, those with benzyl termination in the patent EP 2 205 711 or those with carboxylic termination described in the international application WO2004037960.

[0010] It is well known that alkoxylation reactions lead to mixtures of alkoxylated products comprising a variable number of alkoxyl groups, the number of alkoxyl units in said mixture of alkoxylated products most often following a more or less broad or more or less narrow Gaussian distribution, generally characterized by the width of the Gaussian curve at mid-height, commonly quantified statistically by the 2σ value.

[0011] It has now been discovered, entirely surprisingly, that it is possible to prepare, in a particularly easy way industrially, end-capped alcohol alkoxylates which exhibit entirely advantageous properties, in terms of physicochemical properties as well as in terms of application properties.

[0012] Thus and according to a first aspect, the present disclosure relates to a composition comprising a mixture of end-capped alcohol alkoxylates, in which composition:

- the alcohol comprises from 3 to 22, preferably from 5 to 22, carbon atoms, more preferably from 5 to 20, very particularly preferably from 5 to 18, carbon atoms,
- the weight distribution of the alkoxylates follows a monomodal distribution, the peak width value (2σ) of which is less than 7, preferably less than 6, advantageously less than 5, more preferably less than 4, and
- the end part is capped by a group chosen from linear or branched alkyls comprising from 1 to 6 carbon atoms, the phenyl group, the benzyl group, the hydrocarbon groups carrying a carboxy –COO- functional group, and the groups carrying a sugar unit.

In another aspect, the present disclosure refers to a process for the preparation of a composition as defined above, comprising the following successive stages:

a) reacting an alcohol with one or more alkylene oxides chosen from ethylene oxide, propylene oxide, butylene oxide and their mixtures, in the presence of at least one alkoxylation catalyst of narrow range type, preferably of DMC type;
b) reacting the product resulting from stage (a) with one or more compounds capable of carrying out an end capping.

In yet another aspect, the present disclosure refers to the use of a composition as defined above as surface-active agent and in particular as surface-active agent having a low foaming power.

In yet another aspect, the present disclosure refers to a formulation comprising at least one composition as defined above and one or more aqueous, organic or aqueous/organic solvents chosen from water, alcohols, glycols, polyols, mineral oils, vegetable oils, waxes and others, alone or as mixtures of two or more of them, in all proportions.

[0013] Preferably, the end cap of the alcohol alkoxylates is chosen from methyl, ethyl, propyl, butyl and benzyl groups and alkylcarboxyl –COOH group and its salts. Mention may be made, among the salts of the carboxyl functional group which can be envisaged, of the salts well known to a person skilled in the art and in particular the metal, alkali metal, alkaline