CLAIMS

Claim 1: A composition, comprising:

trialkyl esters of trimellitic acid;

wherein the trialkyl radicals of the trialkyl esters are a mixture of isomeric pentyl radicals, wherein more than 5 mol% of the isomeric pentyl radicals are branched, and

at least 50 mol% of the branched isomeric pentyl radicals are 2-methylbutyl radicals.

Claim 2: The composition according to claim 1, wherein at least 15 mol%, of the isomeric pentyl radicals of the trialkyl ester groups are branched.

Claim 3: The composition according to claim 1, wherein more than 10 mol%and less than 95 mol % of the isomeric pentyl radicals are linear.

Claim 4: A process for preparing the composition according to claim 1, comprising:

reacting trimellitic acid and/or a trimellitic acid derivative with a mixture of isomeric pentanols;

wherein more than 5 mol% of the isomeric pentyl radicals in the mixture of isomeric pentanols are branched isomeric pentyl radicals, and

at least 50 mol% of the branched isomeric pentyl radicals are 2-methylbutyl radicals.

Claim 5: The process according to claim 4, wherein, during the reaction, containing the trimellitic and/or the trimellitic acid derivation the reaction mixture is heated to boiling, after attaining boiling temperature, adding and at least 0.2 molar equivalent of the amount of mixture

of isomeric pentanols needed to introduce all the isomeric pentyl radicals incorporated in the ester mixture is added to the reaction mixture containing the trimellitic acid and/or the trimellitic acid derivative only after attainment of the boiling temperature.

Claim 6: The process according to claim 4, wherein

- at least one isomerically pure tripentyl ester of trimellitic acid and at least one mixture of triisopentyl esters of trimellitic acid comprising isomeric pentyl radicals

are mixed with one another, such that more than 5 mol% of the isomeric pentyl radicals are branched, and at least 50 mol% of the branched isomeric pentyl radicals are 2-methylbutyl radicals.

Claim 7: A plasticizer, or a plasticizer composition comprising the composition according to claim 1 and at least one further polymer-plasticizing compound.

Claim 8 : A polyvinyl chloride polymer (PVC) or a PVC copolymer comprising the composition of claim 1.

Claim 9 : A plasticized product comprising the composition of claim 1, wherein the product is selected from the group consisting of adhesives, sealing compounds, coating materials, paints, inks, plastisols, foams, synthetic leather, floor coverings, roofing membranes, underbody protection, fabric coatings, cables, wire insulation, hoses, extruded articles, films, automotive interior, wall coverings, liquid inks, toys, contact sheets, food packaging or medical articles.

Claim 10: A plasticizer composition comprising the composition according to Claim 1 and at least one further polymer-plasticizing compound selected from the group consisting of alkyl benzoates, dialkyl adipates, glycerol esters, trialkyl citrates, acylated trialkyl citrates, glycol dibenzoates, trimellitates having radicals different from the isomeric pentyl radicals of Claim 1, dialkyl terephthalates, dialkyl phthalates, esters of furandicarboxylic acid, dialkanoyl esters of dianhydrohexitols, epoxidized fatty acid alkyl esters, polyadipates, and dialkyl esters of cyclohexane-1,2-, -1,3- or -1,4-dicarboxylic acid.

Claim 11: A polymer composition comprising the composition according to Claim 1 wherein the polymer composition comprises one or more polymers selected from the group consisting of polyvinyl chloride, copolymers of vinyl chloride with vinyl acetate or with butyl acrylate, polyalkyl methacrylate (PAMA), polyvinyl butyral (PVB), chlorosulphonated polyethylene, polyurethane, polysulphides, polylactic acid (PLA), polyhydroxybutyral (PHB) and nitrocellulose.