

Title (en)

POLYOL AND COMPLEX ESTERS FOR USE WITH, IN PARTICULAR, FLUORINATED REFRIGERANTS

Title (de)

POLYDE UND KOMPLEXE ESTER ZUR VERWENDUNG INSBESONDERE IN FLUORIMIERTEN KÜHLSCHMIERSTOFFEN

Title (fr)

ESTER DE POLYOL ET ESTERS COMPLEXES UTILISES EN PARTICULIER AVEC DES FRIGORIGENES FLUORES

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Application

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Abstract (en)

[origin: WO9846706A1] The invention concerns a refrigerant composition which comprises a chlorine-free hydrofluorocarbon based refrigerant and, mixed with the refrigerant, a lubricant comprising a polyol ester. According to the invention the polyol ester comprises an ester of 3-hydroxy-2,2-dimethylpropyl-3-hydroxy-2,2-dimethylpropionate, the carboxylic acid residue of which is derived from a linear or branched C4...C18-carboxylic acid or an anhydride thereof, or it is derived from a mixture of linear or branched C4...C18-carboxylic acids or anhydrides thereof. The present invention also concerns novel complex ester of 3-hydroxy-2,2-dimethylpropyl-3-hydroxy-2,2-dimethylpropionate, which contain residues of mono- or bivalent carboxylic acids. The novel esters exhibit good solubility in fluorinated hydrocarbons and excellent lubricating properties.

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