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(54) Title: 1-ETHOXY-1,1,2,2,3,3,4,4,4-NONAFLUOROBUTANE REFRIGERANT COMPOSITIONS COMPRISING FUNCTIONALIZED ORGANIC COMPOUNDS AND USES THEREOF

(57) Abstract: The present invention relates to compositions for use in refrigeration and air-conditioning systems comprising 1-ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane and at least one chlorocarbon, alcohol, ketone, ether, ester, N-(difluoromethyl)-N,N-dimethylamine, or mixtures thereof. Further, the present invention relates to compositions for use in refrigeration and air-conditioning systems employing a centrifugal compressor comprising 1-ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane and at least one chlorocarbon, alcohol, ketone, ether, ester, N-(difluoromethyl)-N,N-dimethylamine, or mixtures thereof. The compositions of the present invention may be azeotropic or near-azeotropic and are useful in processes for producing cooling or heat or as heat transfer fluids.

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