Claims

1. A refrigerant for a cooling device (10, 23, 30, 36, 43) having a cooling circuit (11, 24, 39, 44) comprising at least one heat exchanger (12, 25, 47) in which the refrigerant undergoes a phase transition, the refrigerant being a refrigerant mixture composed of a mass fraction of carbon dioxide (CO_2) and a mass fraction of at least one other component,
characterized in that
the mass fraction of carbon dioxide in the refrigerant mixture is 10 to 50 mass percent, preferably 30 to 50 mass percent, the other component being pentafluoroethane (C_2HF_5) and/or difluoromethane (CH_2F_2),
characterized in that
the mass fraction of carbon dioxide in the refrigerant is 31 to 46 mass percent.

2. The refrigerant according to claim 1,
characterized in that
a mass fraction of carbon dioxide is 30 to 33 mass percent, preferably 31 mass percent, and a mass fraction of pentafluoroethane is 70 to 67 mass percent, preferably 69 mass percent.

3. The refrigerant according to claim 1,
characterized in that
the mass fraction of carbon dioxide is 44 to 48 mass percent, preferably 45.8 mass percent, and a mass fraction of difluoromethane is 56 to 52 mass percent, preferably 54.2 mass percent.

4. The refrigerant according to any one of the preceding claims, characterized in that
the refrigerant mixture is a binary mixture.

5. The refrigerant according to claim 1,
characterized in that
the refrigerant mixture has trifluoroethylene, 1,1-difluoroethene ($C_2H_2F_2$) or fluoroethene (C_2H_3F) as an additional component.