

STANDARD HEAT TRANSFER FLUID

Technical datasheet Nr 30

LACAZE ENERGIES standard heat transfer fluid is a ready-to-use fluid designed for filling of thermal solar installations. It is based on inhibited bio-sourced mono propylene glycol. It is free of borax, nitrites, phosphates and amines.

Thanks to its high-performance formula, it meets the main water system requirements:

- **Bactericidal and Fungicidal** action limiting the development of silt in low temperature systems (<40 C°).
- **Anti-tarter, Anti-corrosion** action limiting the risks of obstruction and alteration of the different materials comprising the systems.
- **Anti-freeze** action allowing bursting risks of parts comprising the systems to be limited.
- **High-temperature resistance** allowing vapour phases in the solar collectors to be limited.



• PACKAGING:

Reference*	Designation
50070104545	Standard heat transfer fluid -28°C, canister of 20L
50070104643	Standard heat transfer fluid -28°C, drum of 210L
50070104644	Standard heat transfer fluid -28°C, container of 1000L

* Store protected from light and heat.

• INSTRUCTIONS FOR USE:

- DO NOT DILUTE the heat transfer fluid. It should be directly injected into the installation after cleaning the latter.
- To ensure good protection of the installations, check every year.
- Keep out of reach of children.

• PHYSICAL AND CHEMICAL CHARACTERISTICS:

Characteristics	Units	Specifications	Test methods
Pure volumic mass at 20°C	g/l	1 034 +/-4	NF R 15-602-1
pH of a 33% aqueous solution	pH	7.5 < x < 8.5	NF T 78-103
Alkalinity level (ml HCl 0.1N)	ml	≥5	NF T 78-101
Water content	% mass	60 max	NF T 78-104
Boiling point	°C	107 +/-2	NF R 15-602-4

Temperature °C	Dynamic viscosity centipoise cP
80 °C	0.7
40 °C	1.6
30 °C	2.3
10 °C	4.9
0 °C	7
-10 °C	10.2

Temperature °C	Specific heat capacity J/(kg.K)
-18	3 770
0	3 933
30	4 097
60	4 195
90	4 292
105	4 332

• REGULATIONS / APPROVALS:

The LACAZE ENERGIES standard heat transfer fluid is approved by the French Ministry of Health on 7 October 2013 (favourable recommendation of AFSSA). It is registered under the European REACH regulation on 9 February 2016.