Natural refrigerants

R-1270 (Propylene)

R-1270: NATURAL COOLANT FOR INDUSTRIAL APPLICATIONS WITH LOW TEMPERATURES.

R-1270 is a hydrocarbon refrigerant with low environmental impact in terms of both ozone layer protection and greenhouse effect and is classified as a safety group A3 refrigerant. It has thermodynamic characteristics very similar to R22, which is why it is usually used in industrial installations of flooded systems that formerly worked with R-22.

Chemical name:	ASHRAE Code:
Propylene	R-1270

Technical specifications:

0	2	A3	Mineral, alquil-benccenic and POE
ODP	GWP	Safety classification	Compatible lubricants

Boiling point: -47,6ºC.

Temperature Range: Medias y bajas.

Replacement:
R-22 in flooded industrial equipment and HFC refrigerants in new equipment.

Applications:

- Industrial refrigeration
- Suitable for industrial flooded equipment

Packaging sizes for R-1270 (Propylene):

- Cylinders
- Roll drums
- Isotanks

Normative:

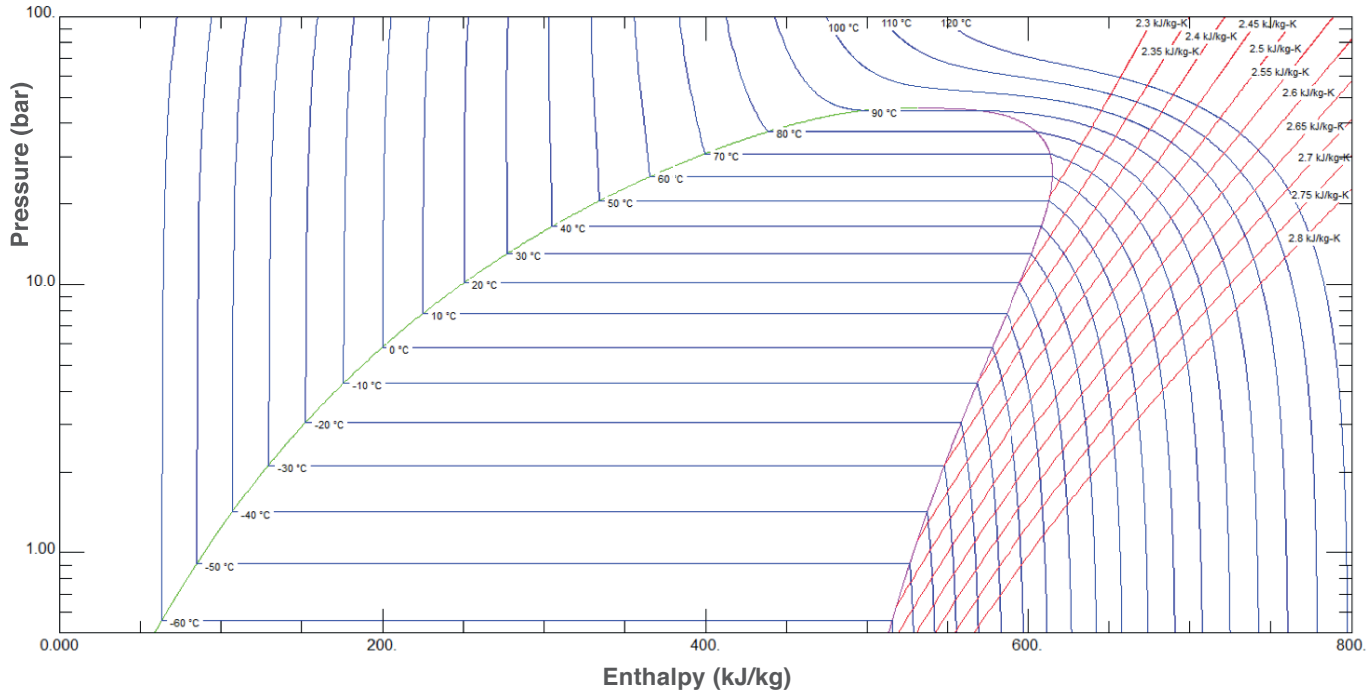
GRIT (Gases Research Innovation & Technology) is committed to the continuous improvement of our inbuilt Quality Control, Environment and Major Accident Prevention Systems as well as close collaboration with our product and service providers. The scope of the system includes the packaging, commercialisation, storage and innovation of technical gases and the management of residual fluorinated gas and halogenated solvents.

All this work is reflected in our certificates ISO 9001 & ISO 14001. GRIT also meets AHRI 700 standard for new and recycled refrigerants.

Thermodinamic properties chart:

Temperature (ºC)	Absolute pressure (bar)	Liquid density (kg/l)	Gas density (kg/l)	Liquid enthalpy (kJ/kg)	Gas enthalpy (kJ/kg)
-50	0,90808	0,613	0,0021306	84,895	526,41
-45	1,1397	0,6068	0,0026312	95,866	531,82
-40	1,4147	0,60052	0,0032179	106,93	537,19
-35	1,7385	0,59415	0,0039001	118,11	542,52
-30	2,1162	0,58767	0,0046883	129,4	547,78
-25	2,5535	0,58109	0,0055935	140,81	552,97
-20	3,0562	0,57438	0,0066274	152,35	558,09
-15	3,6302	0,56755	0,0078031	164,03	563,13
-10	4,2814	0,56057	0,0091345	175,86	568,06
-5	5,0162	0,55343	0,010637	187,85	572,89
0	5,8409	0,54613	0,012328	200	577,59
5	6,7619	0,53863	0,014227	212,33	582,15
10	7,786	0,53092	0,016354	224,86	586,56
15	8,9198	0,52298	0,018736	237,59	590,79
20	10,17	0,51477	0,021401	250,55	594,82
25	11,544	0,50628	0,024381	263,74	598,63
30	13,05	0,49745	0,027718	277,2	602,19
35	14,694	0,48824	0,031459	290,95	605,45
40	16,484	0,47859	0,035663	305,02	608,37
45	18,43	0,46843	0,040406	319,45	610,89
50	20,538	0,45766	0,045781	334,29	612,94

Pressure diagram chart:



More information:

If you want more information about our products, contact us.

EUROPE — GRIT, Gases Research Innovation & Technology

BARCELONA

Our plant:
P. I. "El Punsic", parcela 8.3,
08279 Avinyó, Barcelona. Spain.

Our office:
C/ Consell de Cent 419, Pral 1ª y 2ª,
08009, Barcelona. Spain.

Phone: (+34) 932 721 400
E-mail: grit@grit.es
Website: www.gasesgrit.com

USA — Summit Refrigerants

HOUSTON

8541 East North Belt
Humble, Texas 77396

Phone: (+1) 281-540-2653
Toll-Free: (+1) 866-971-2653
Fax: (+1) 281-540-0385

DALLAS

2080 McDaniel Drive
Suite 200
Carrollton, Texas 75006

Phone: (+1) 469-458-3195
Fax: (+1) 469-458-3085

BATON ROUGE

10080 Industriplex Avenue
Gonzales, LA 70737

Phone: (+1) 225-744-2653
Fax: (+1) 225-677-6106