

# PROTOCOL<sup>®</sup> NT-100

## INDUSTRIAL GRADE, LOW TOXICITY

### Product Description

PROTOCOL NT is an industrial grade propylene glycol-based heat transfer fluid, designed for a wide variety of applications where a low toxicity, generally recognized as safe (GRAS) fluid is preferred or required. Formulated with organic and inorganic inhibitors, PROTOCOL NT offers mixed-metal corrosion protection, has excellent buffering properties and is suitable for a wide range of operating conditions from -60°F to 325°F.

PROTOCOL brand heat transfer fluids are blended as concentrate or pre-mixed with deionized water to meet critical performance specifications. All products are available in sizes from 5-gallon pails to bulk tanker quantities and come backed by a comprehensive glycol analysis program to ensure years of trouble-free service.

### Typical Applications

- Commercial HVAC and Refrigeration
- Closed Loop Hydronic Systems
- Geothermal Ground Source Heat Pumps
- Ice Rinks & Arenas
- Injection Molding
- Natural Gas Line Heaters
- Standby Generators
- LNG Vaporizers





# PROTOCOL<sup>®</sup> NT-100

INDUSTRIAL GRADE, NON-TOXIC

## Technical Data

### Typical\* Composition: NT-100, v%

Propylene Glycol	≥ 93
Inhibitors	≥ 6
Color	Bright Pink
Specific Gravity	~ 1.045 - 1.055
pH, 50% solution	~ 9.0 - 10.5
Reserve Alkalinity, 100%	~ 11.0 (min)

### Typical\* Properties: NT-50, v%

BP @ 760 mm Hg (50%)	~ 222°F
Flash Point	None
VP mm Hg (50% @ 68°F)	~ 15
Thermal Conductivity (50% @ 68°F)	~ 0.198
Specific Heat (50% @ 68°F)	~ 0.84
Viscosity cps (50% @ 68°F)	~ 6.73

### Typical\* Properties (solutions), v%

Freeze Point (°F)	Volume %	Boiling Point (°F)
19	20	213
15	25	214
9	30	216
2	35	217
-6	40	219
-16	45	220
-28	50	223

\*Typical Properties, not to be construed as specifications.