

# NASA TECH BRIEF

## *Marshall Space Flight Center*



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### Updated, Expanded, Fluid Properties Handbook

An updated, expanded version of the Fluid Properties Handbook announced in Tech Brief 67-10440 is now available. The revised handbook presents quantitative data, in the form of graphs and charts, pertaining to the thermodynamic properties of specific cryogenic fluids and several metals. The fluids include the vapor and liquid phases of the following: helium, hydrogen, oxygen, nitrogen, water, monomethylhydrazine, and nitrogen tetroxide. Some data pertaining to the solid-phase properties of several of the fluids are also included. References to the sources from which the data were compiled are cited in the table of contents.

#### **Note:**

Requests for further information may be directed to:

Technology Utilization Officer  
Code A&TS-TU  
Marshall Space Flight Center  
Huntsville, Alabama 35812  
Reference: TSP71-10078

#### **Patent status:**

No patent action is contemplated by NASA.

Source: A. L. Sherman, R. Gershman, and  
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