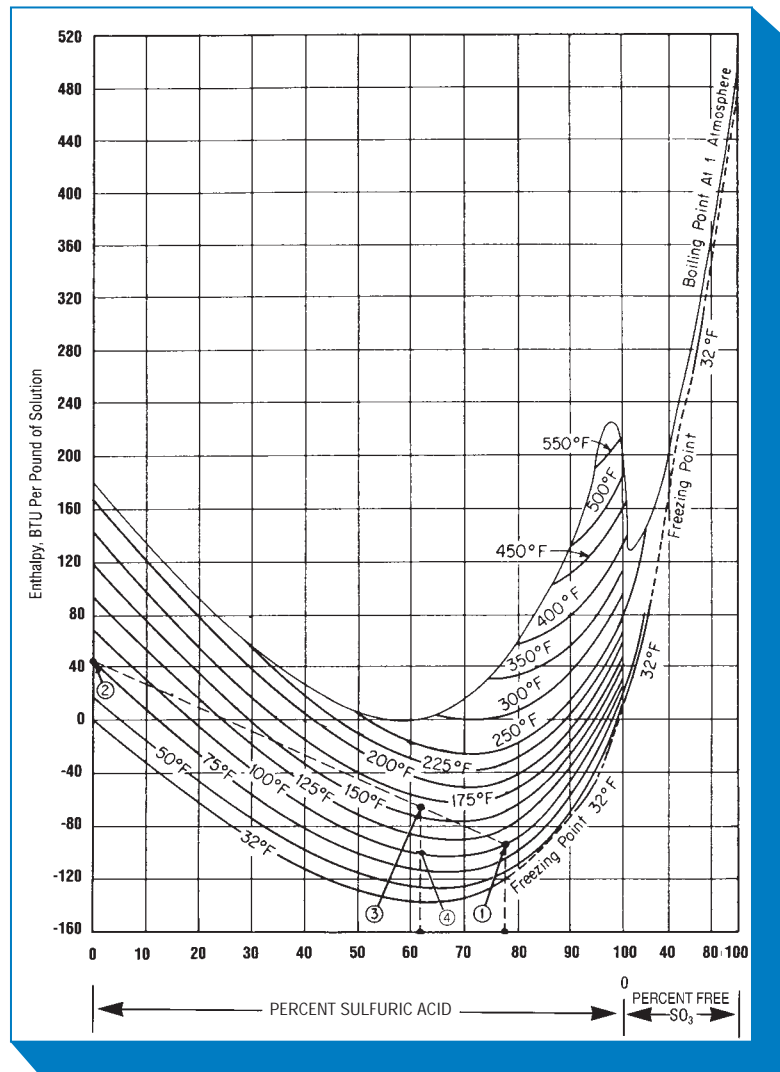


# 7 Enthalpy: Sulfuric Acid and Oleum

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## TO USE GRAPH:

**EXAMPLE:** 78% acid at 100°F is diluted to 62% by addition of water at 75°F.

- To determine resultant temperature of 62% acid:  
Connect points where 78% crosses 100°F temperature line ① and where 0% (water) crosses 75°F temperature line ②. Resultant temperature is indicated by the temperature line intersecting where the connecting line crosses 62% ③ (approx. 165°F).
- To determine heat dissipation required to bring resultant temperature back to 100°F:  
Measure difference on y-axis between resultant temperature point ③ and where 62% crosses 100°F temperature line ④ (approx. 35 BTU/lb).

Note: 1 BTU/lb = 2.3244 kilojoules/kg