

Ellingham Diagrams

Stanley M. Howard, SD School of Mines and Technology

Standard Gibb's Energies of Formation for

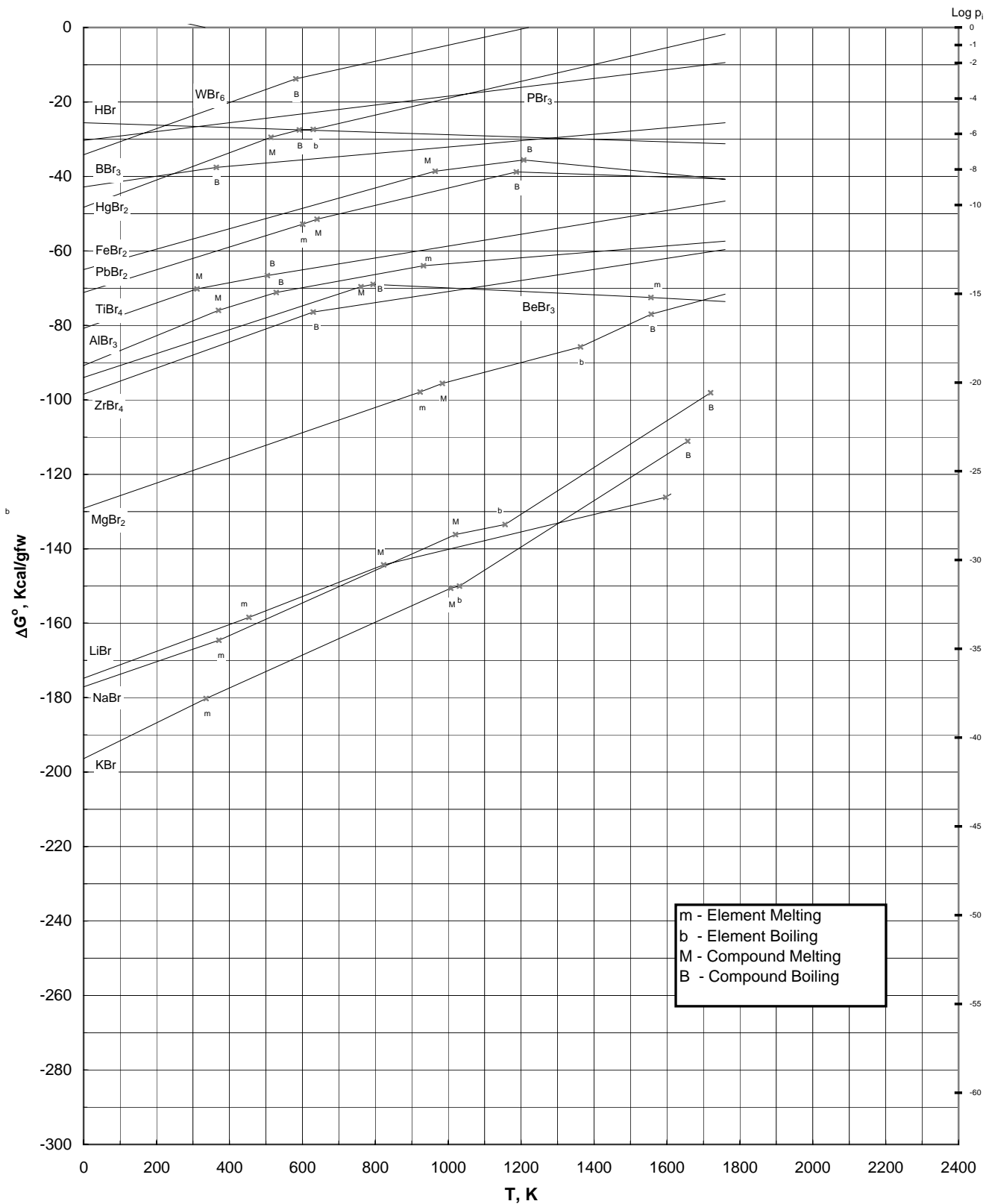
Bromides
Chlorides
Fluorides
Hydrides
Iodides
Nitrides
Oxides
Sulfides
Selenides
Tellurides

The figures include nomographs for equilibrium partial pressures.

Data sources:

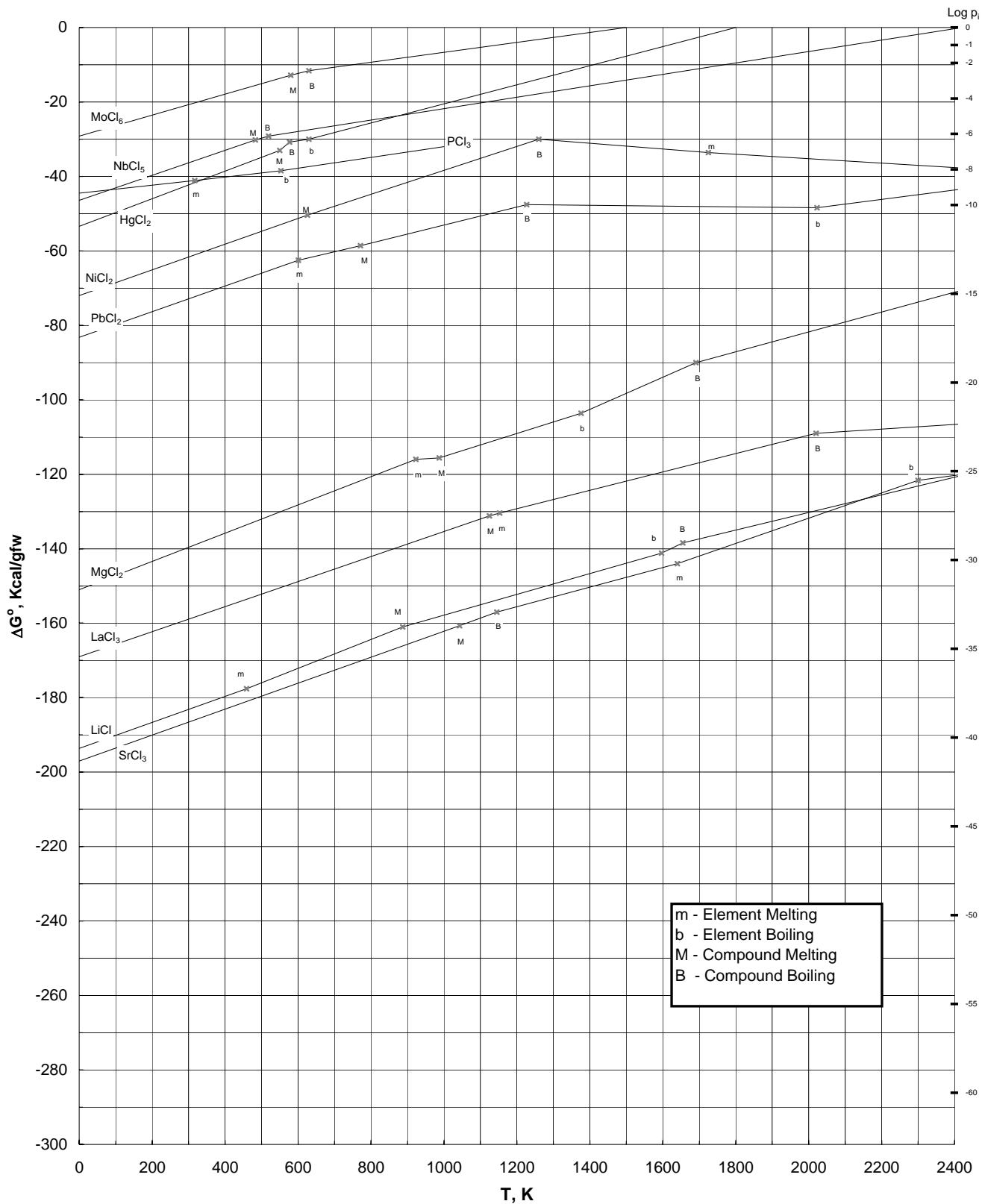
- 1) Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.
- 2) D. R. Stull and H. Prophet, JANAF Thermochemical Tables, NSRDS-NBS 37, U.S. Dept of Commerce, National Bureau of Standards, 1971

This is an Internet Resource for MET 320 - Metallurgical Thermodynamics.



Ellingham Diagram for Selected Bromides: Part-1

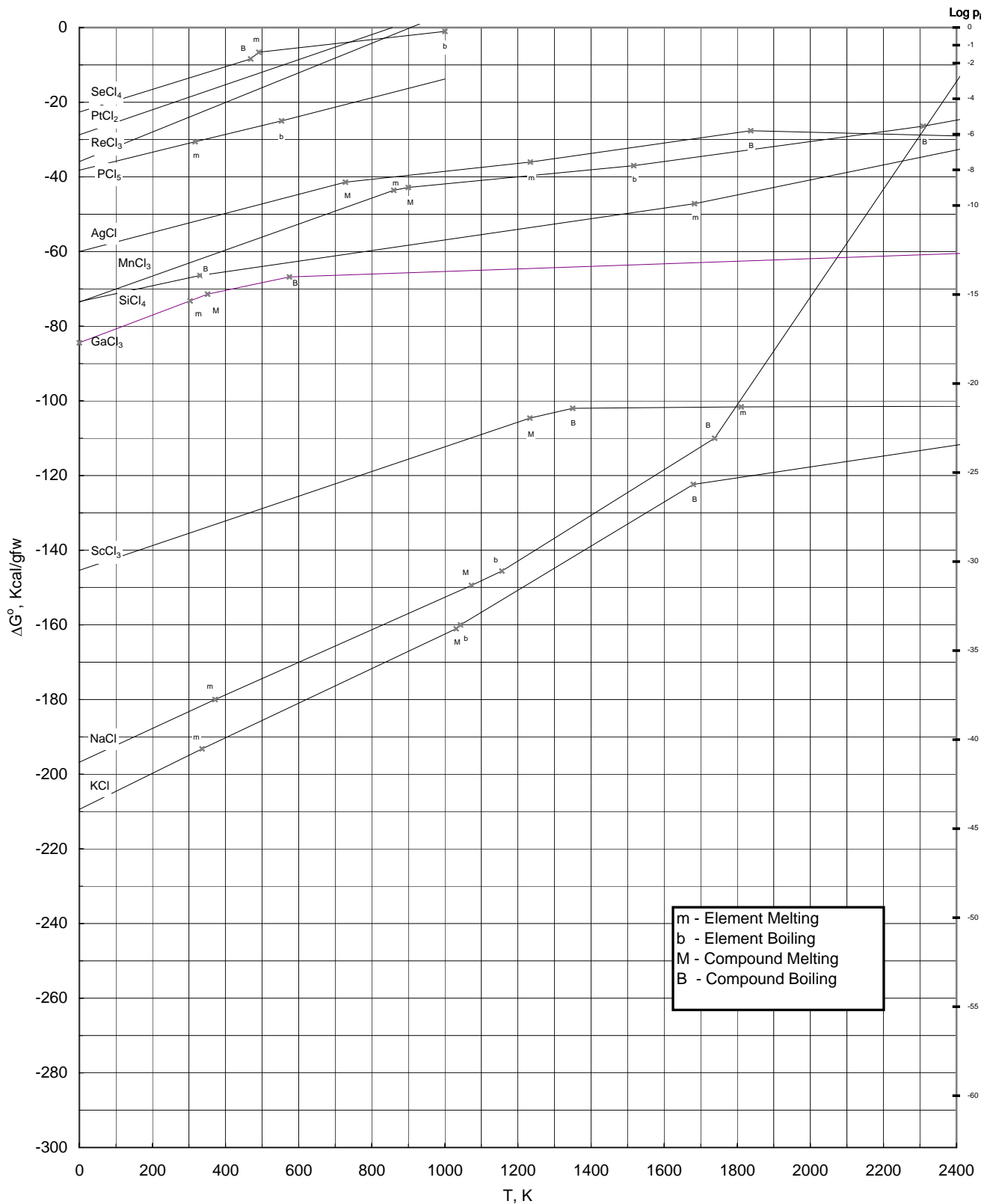
Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971. © 2006 Stanley. M. Howard



Ellingham Diagram for Selected Chlorides: Part-1

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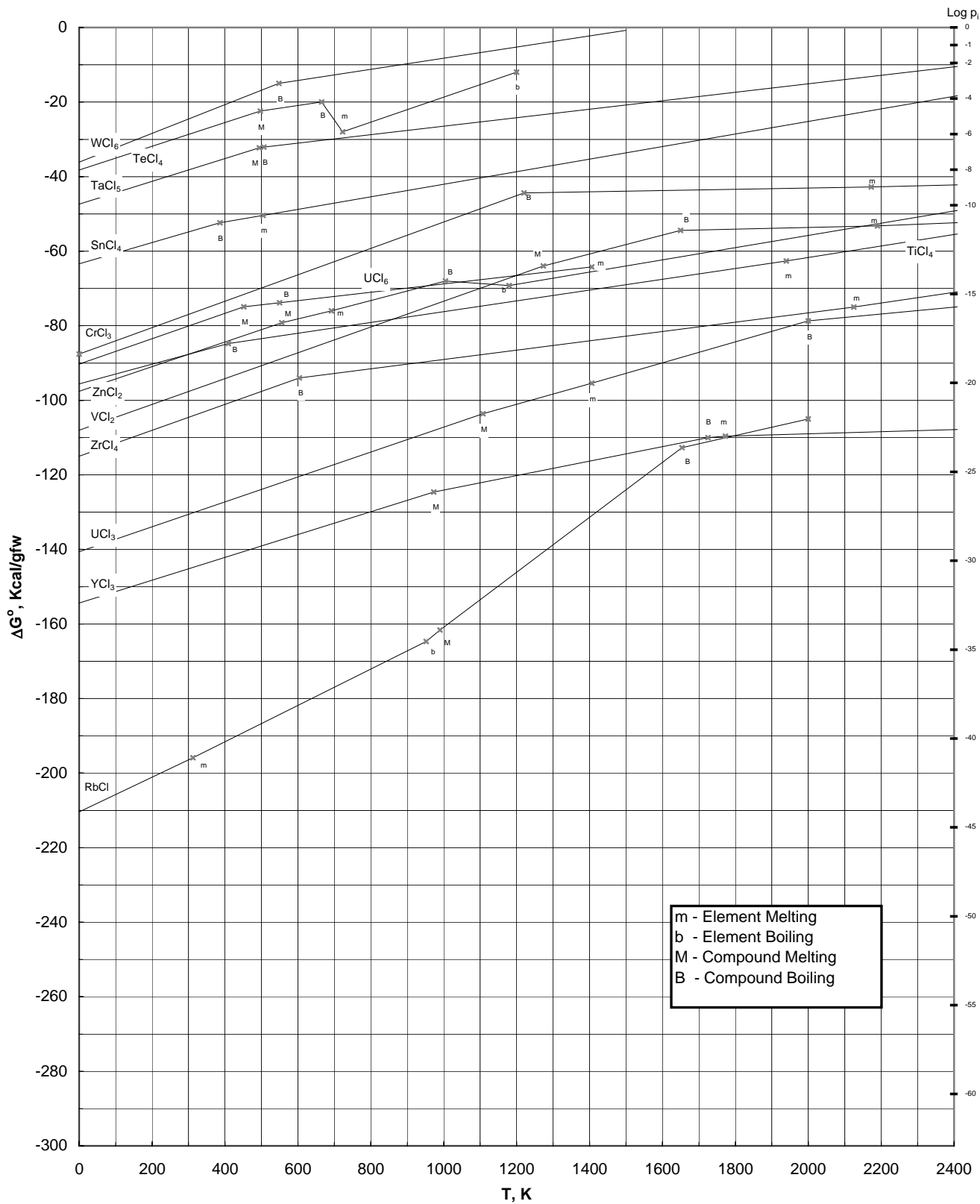
Data from Free Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.



Ellingham Diagram for Selected Chloride: Part-2

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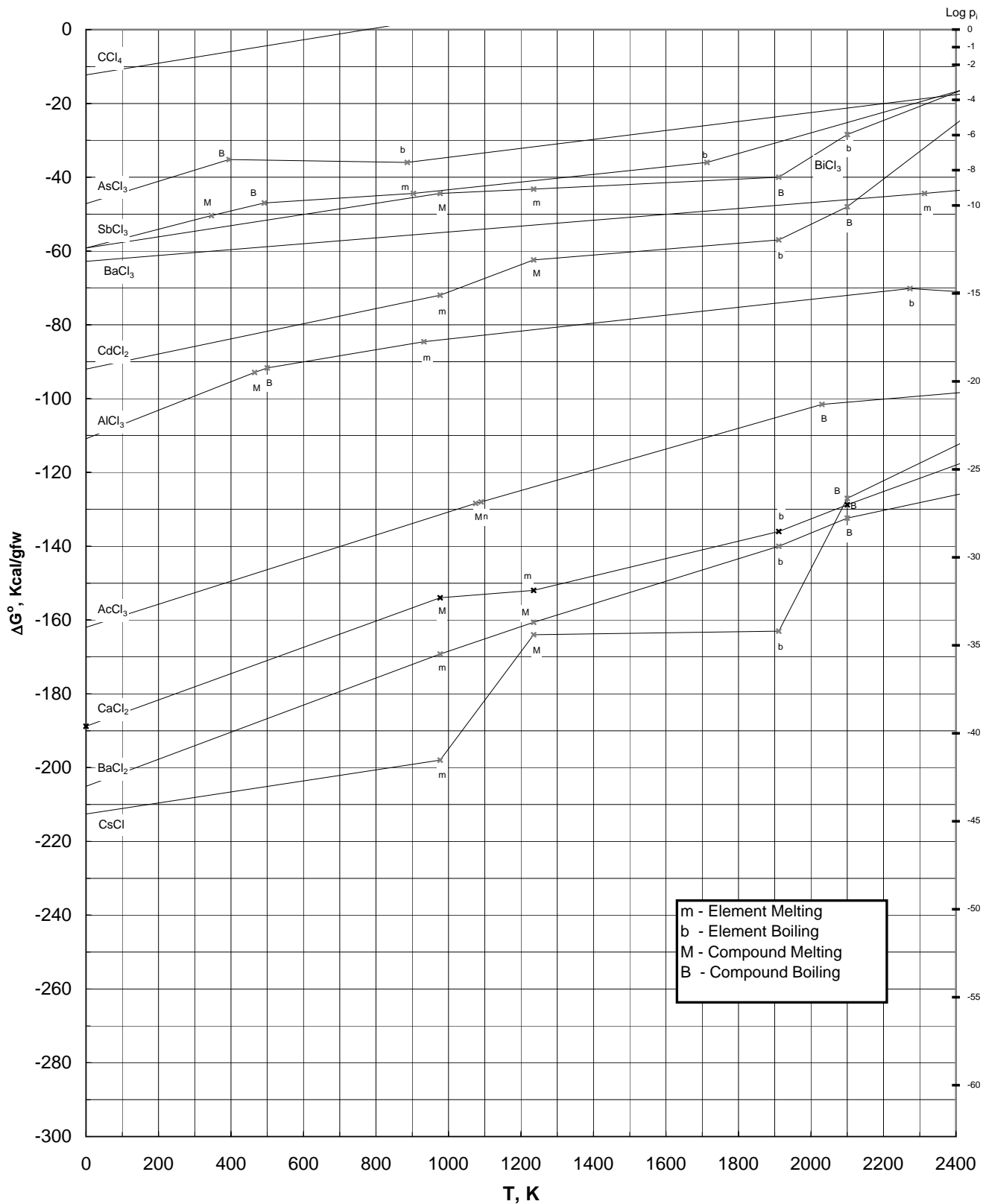
Data from Free Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.



Ellingham Diagram for Selected Chlorides: Part-3

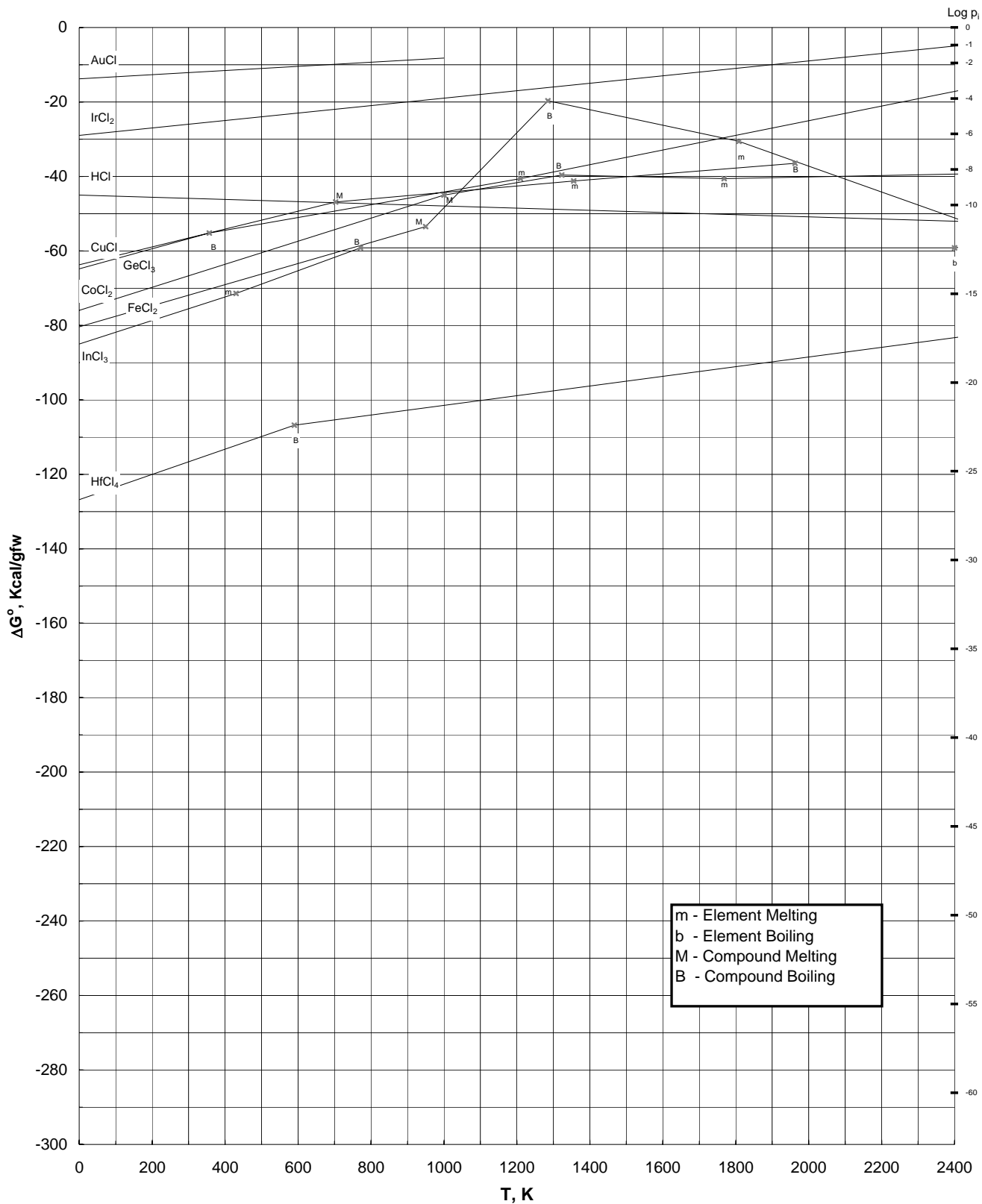
Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.

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Ellingham Diagram for Selected Chlorides: Part-4

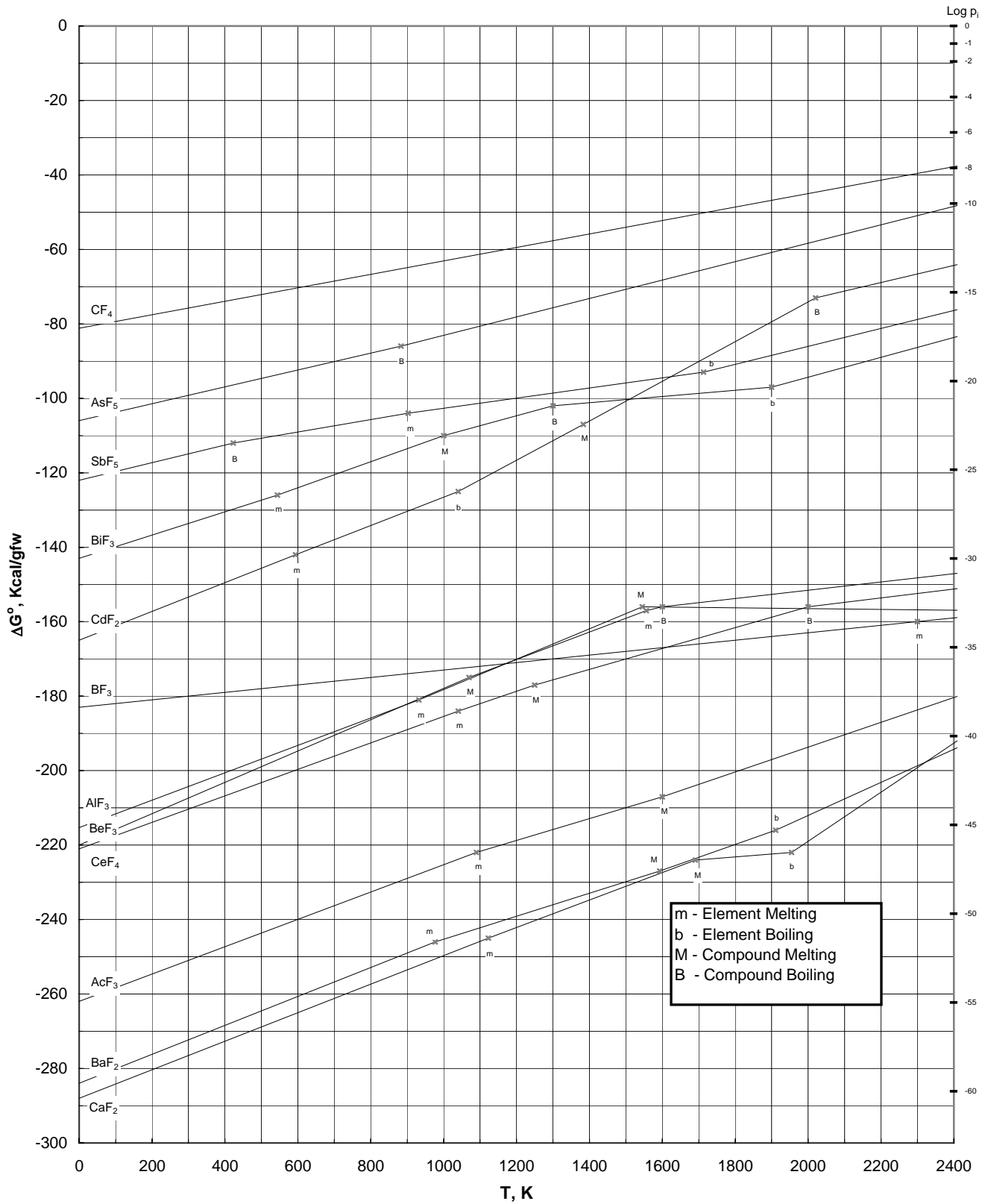
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 Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.



Ellingham Diagram for Selected Chlorides: Part-5

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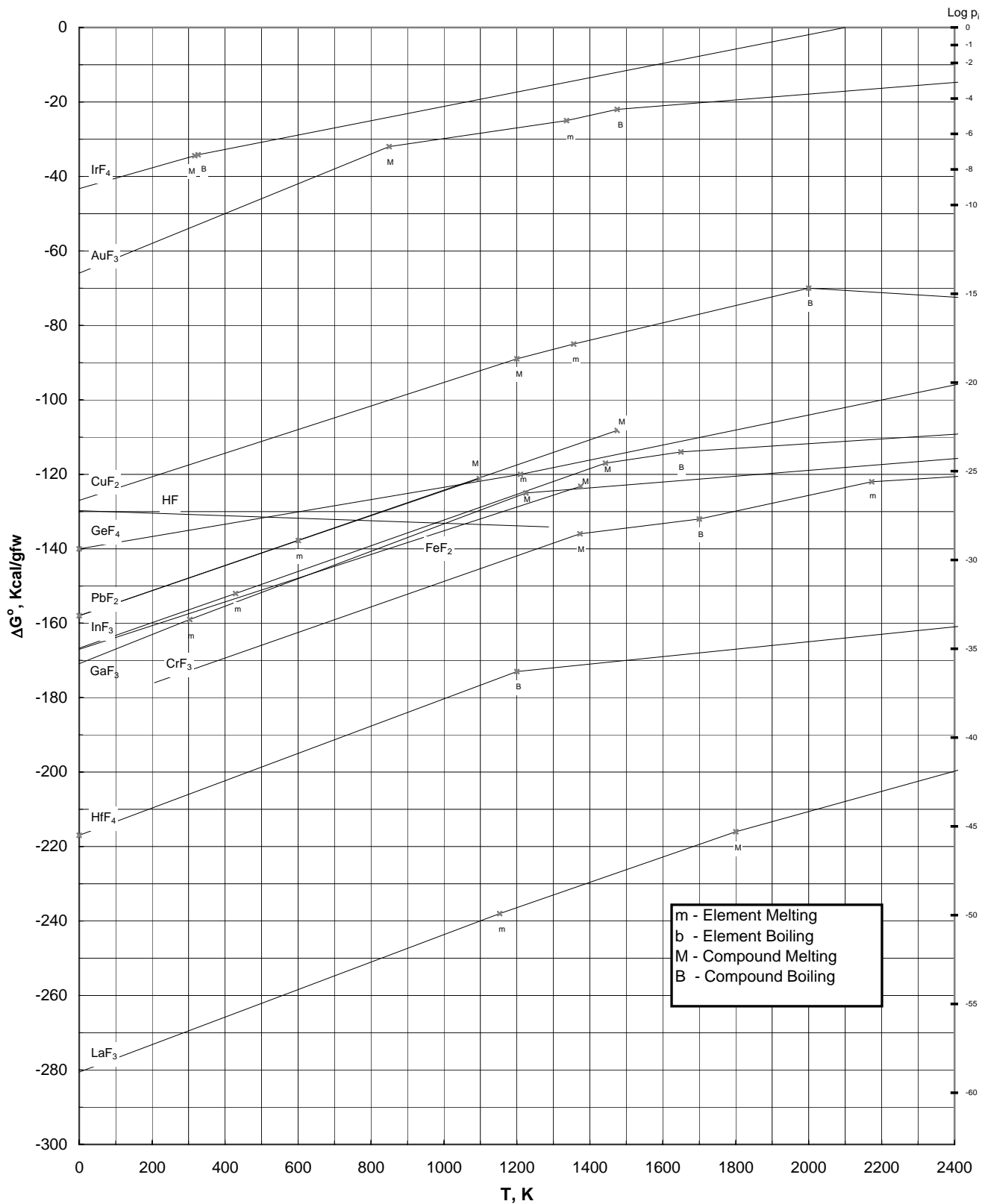
Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.



Ellingham Diagram for Selected Fluorides: Part-1

Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.

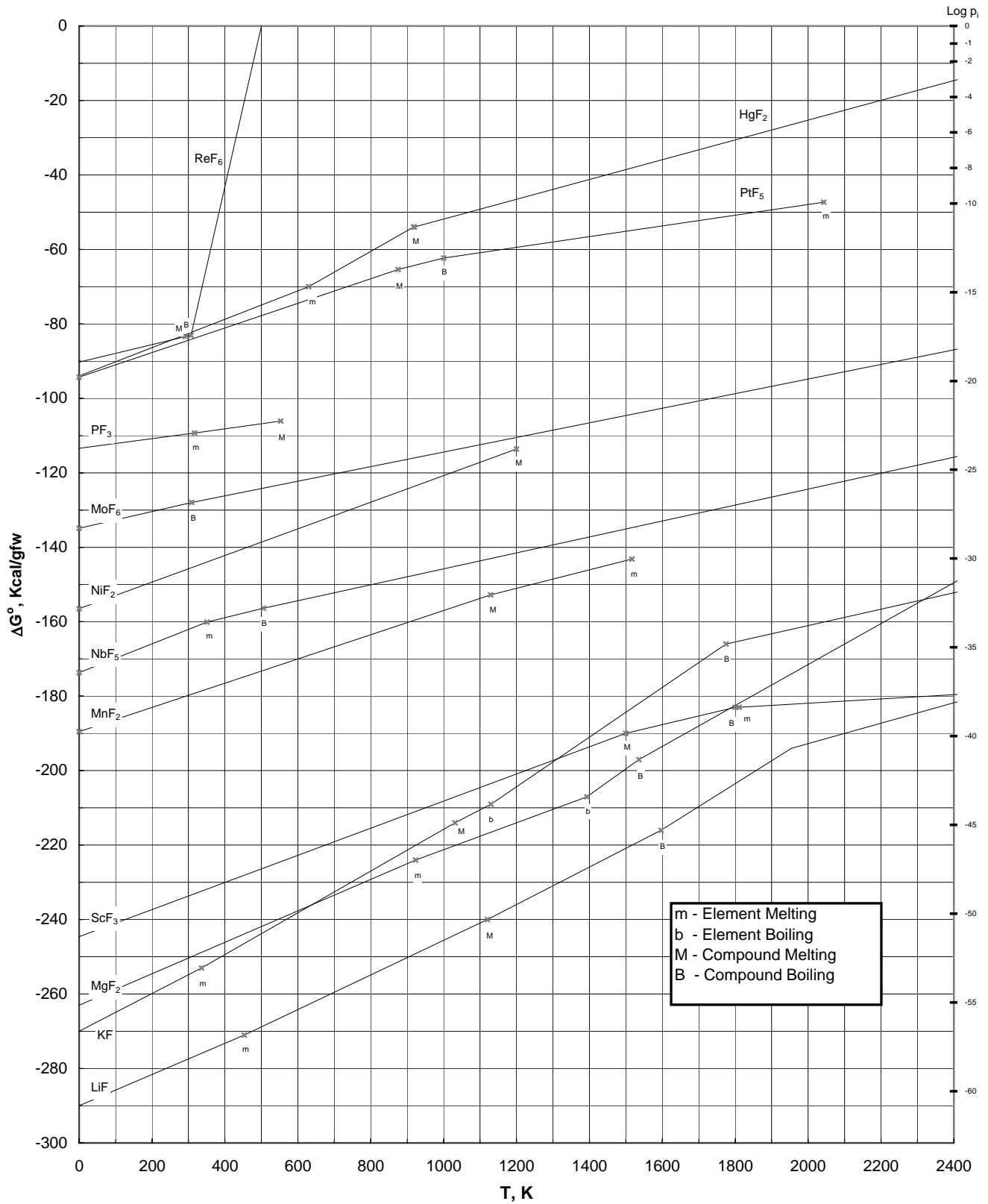
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Ellingham Diagram for Selected Fluorides: Part-2

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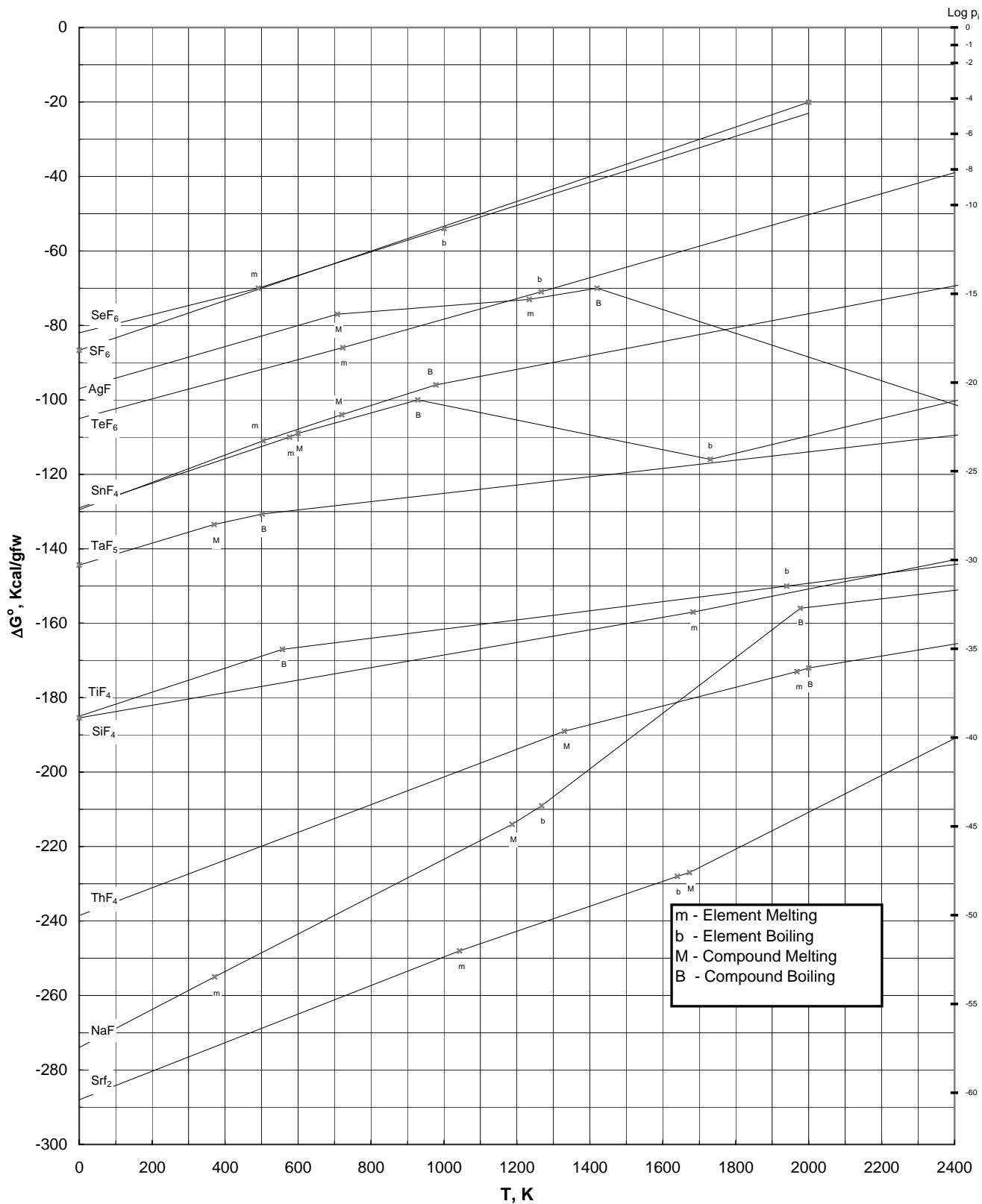
Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.



Ellingham Diagram for Selected Fluorides: Part-3

Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.

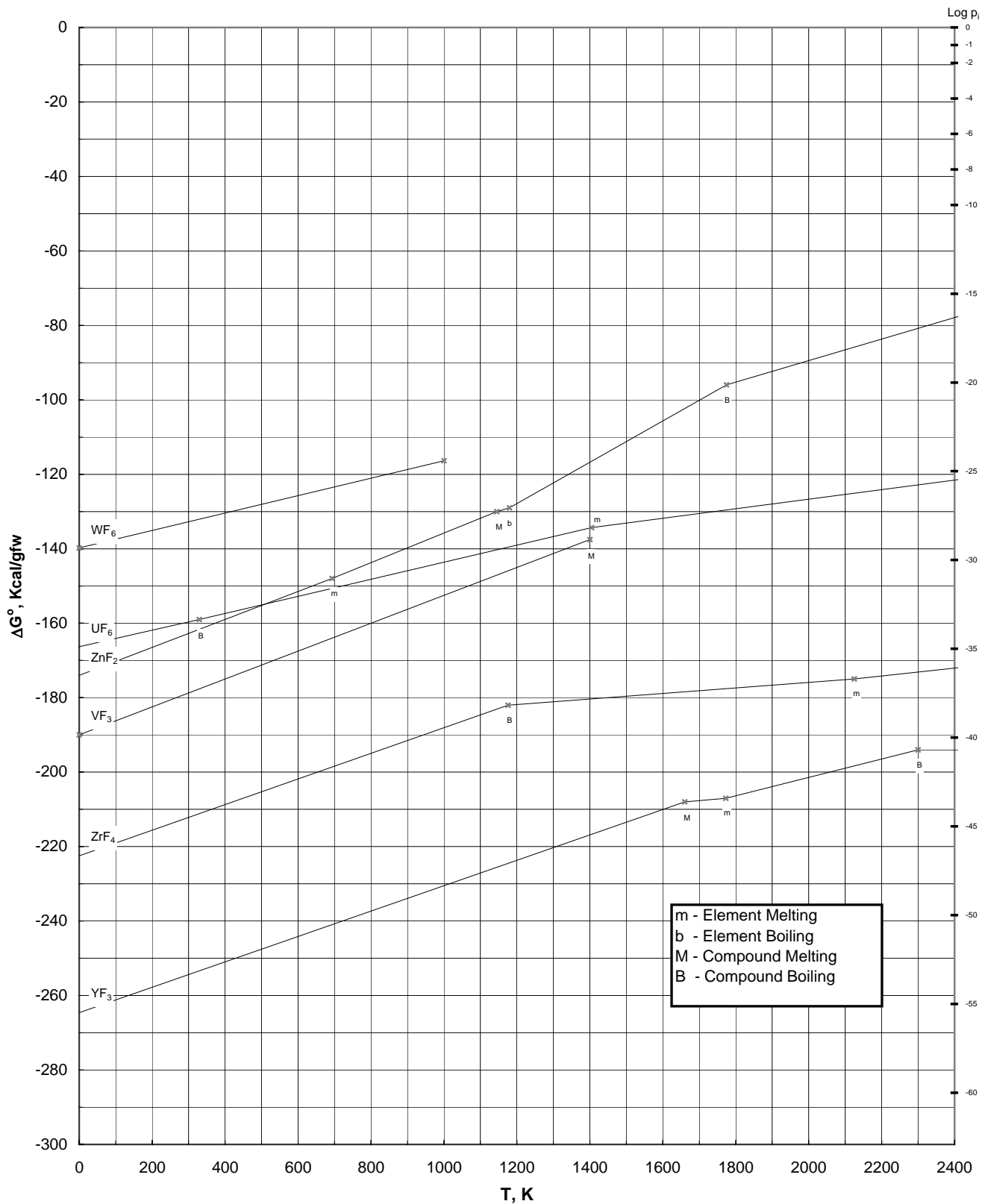
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Ellingham Diagram for Selected Fluorides: Part-4

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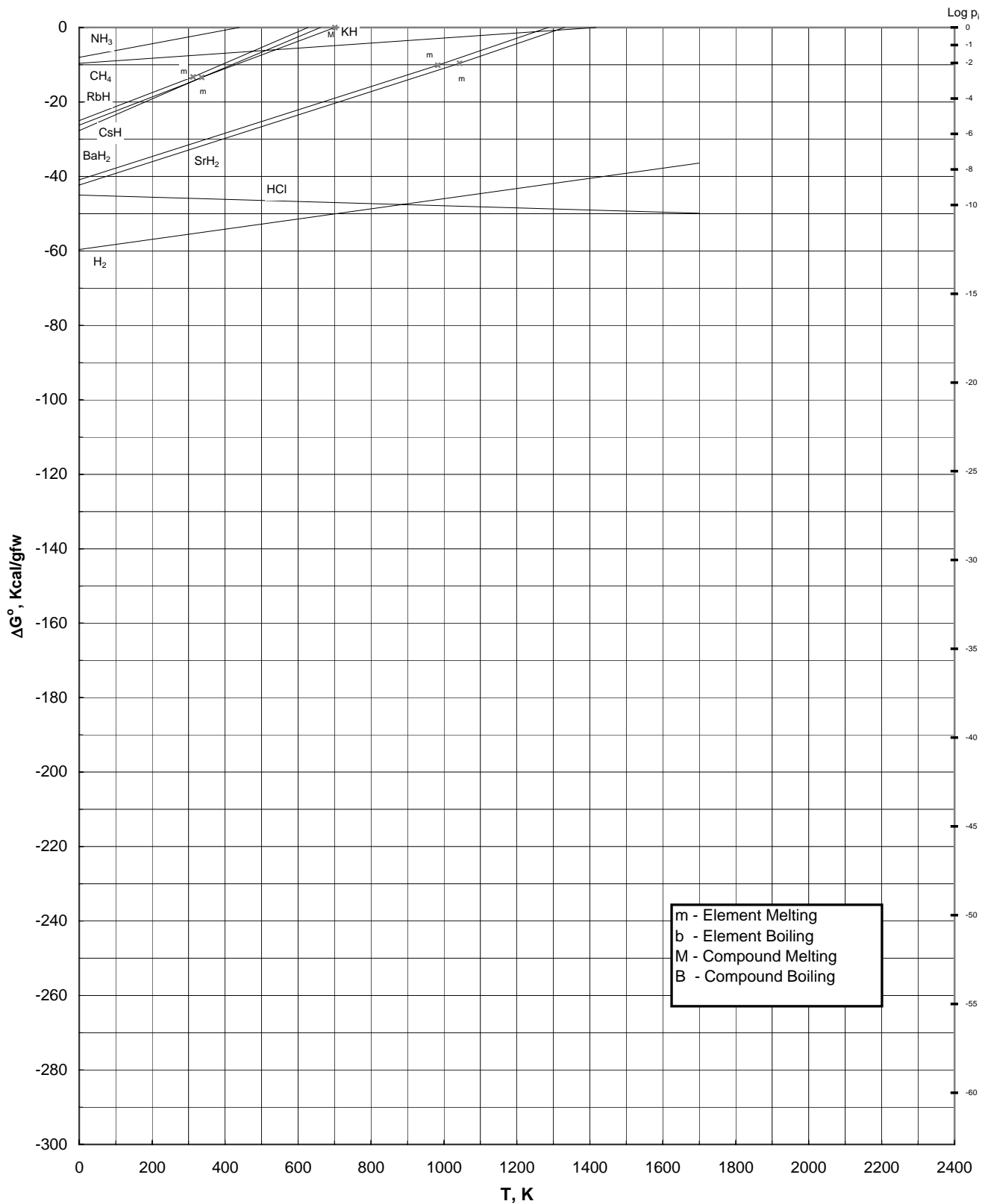
Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.



Ellingham Diagram for Selected Fluorides: Part-5

Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.

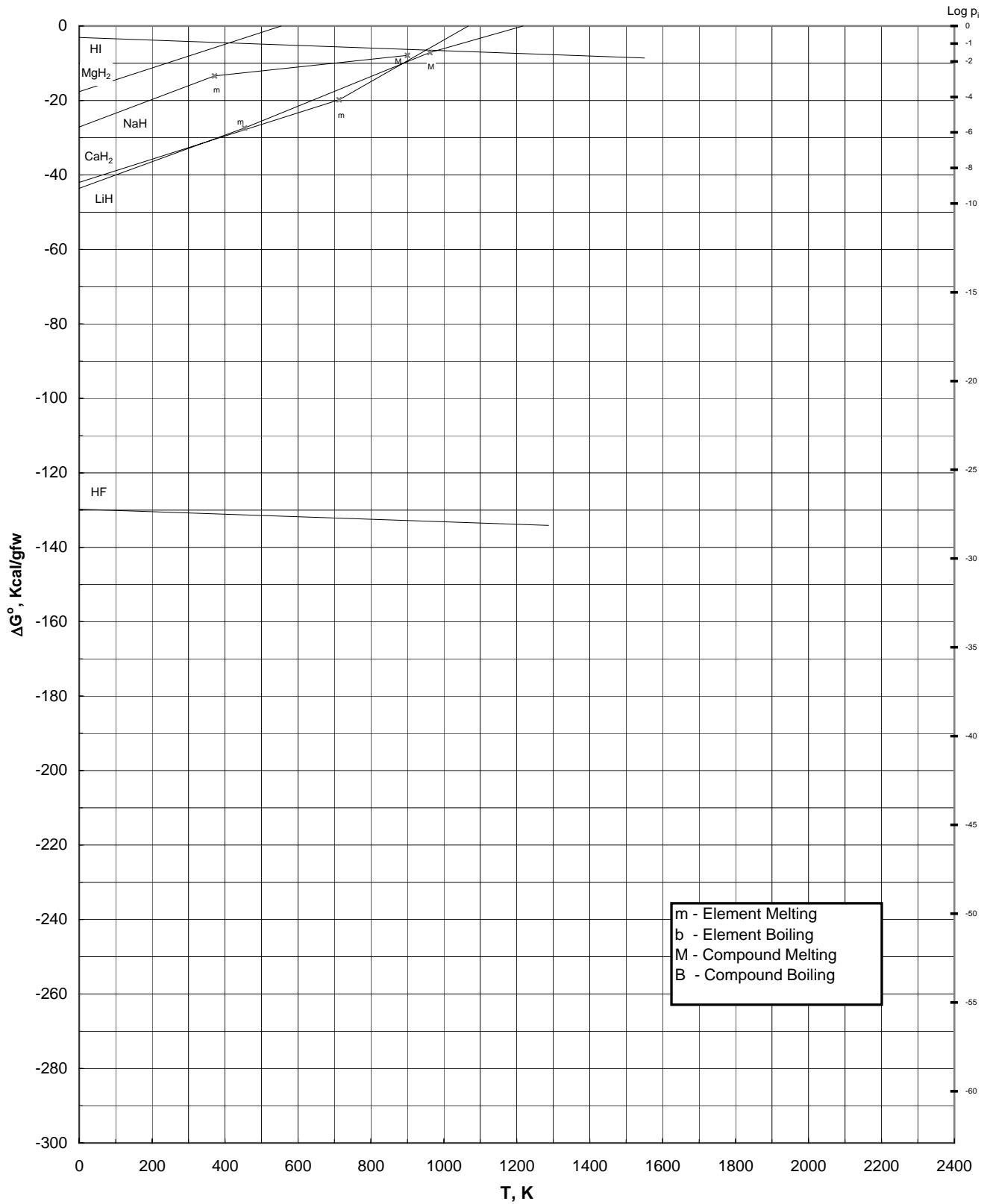
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Ellingham Diagram for Selected Hydrides: Part-1

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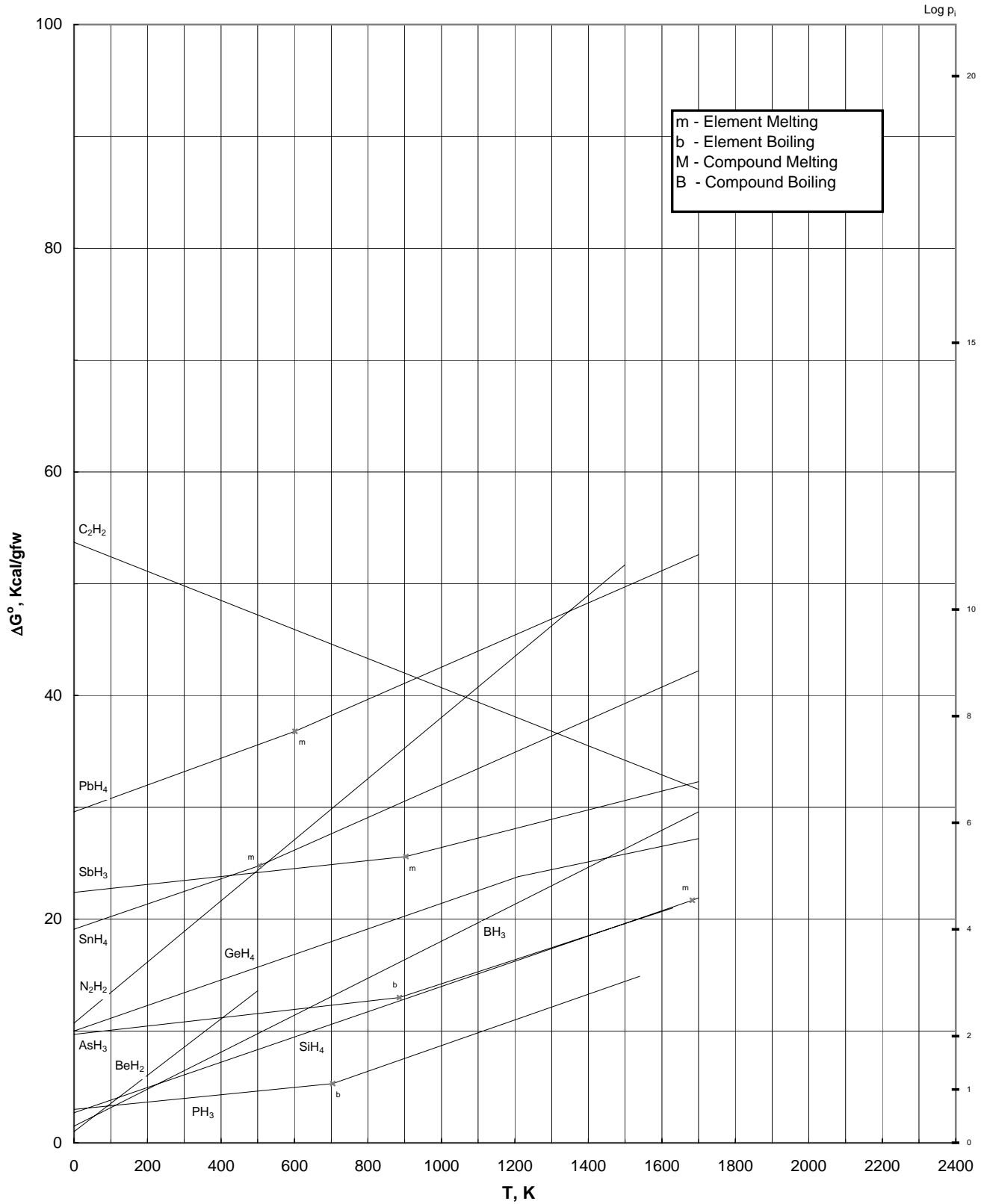
Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.



Ellingham Diagram for Selected Hydrides: Part-2

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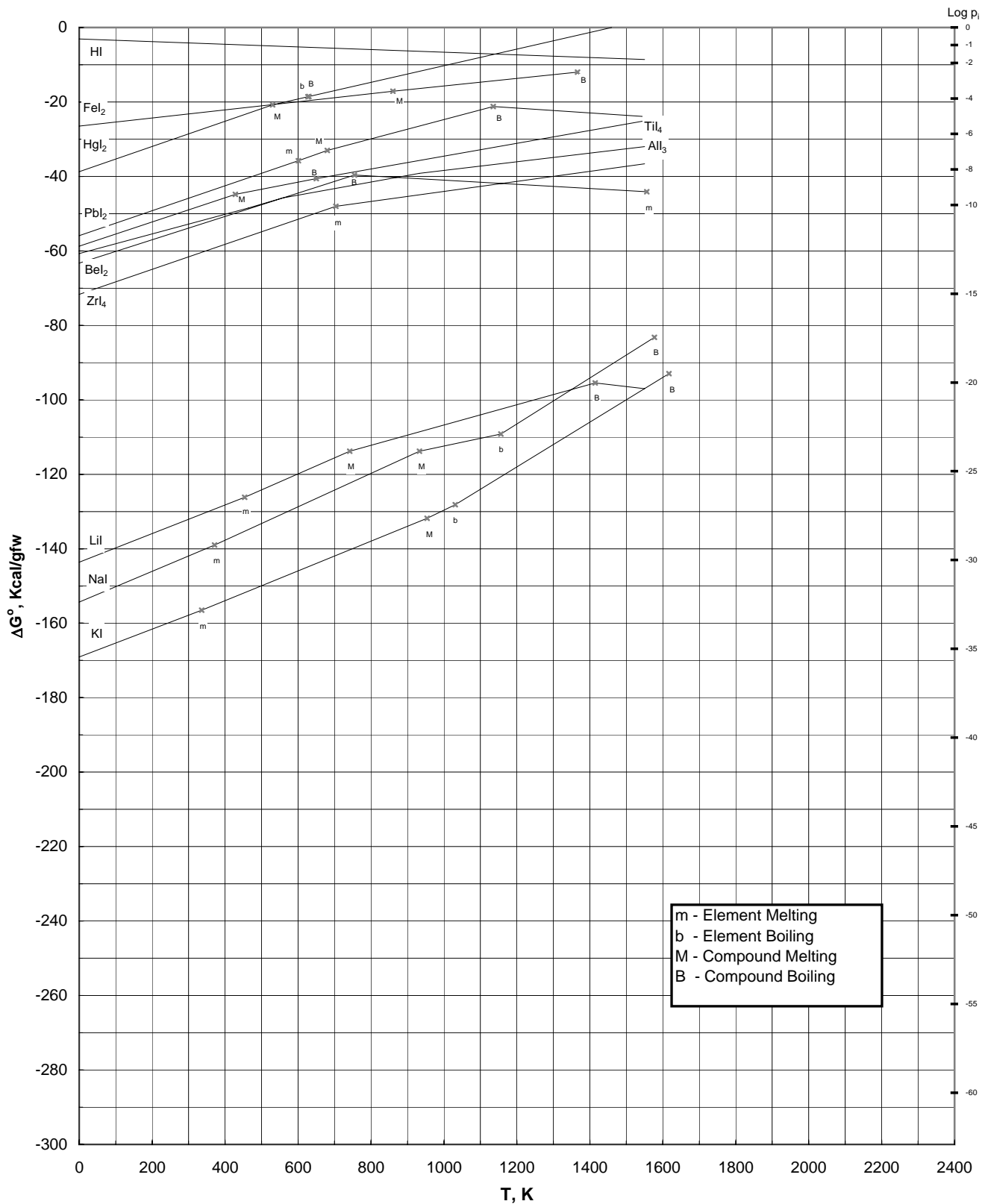
Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.



Ellingham Diagram for Selected Hydrides: Part-3

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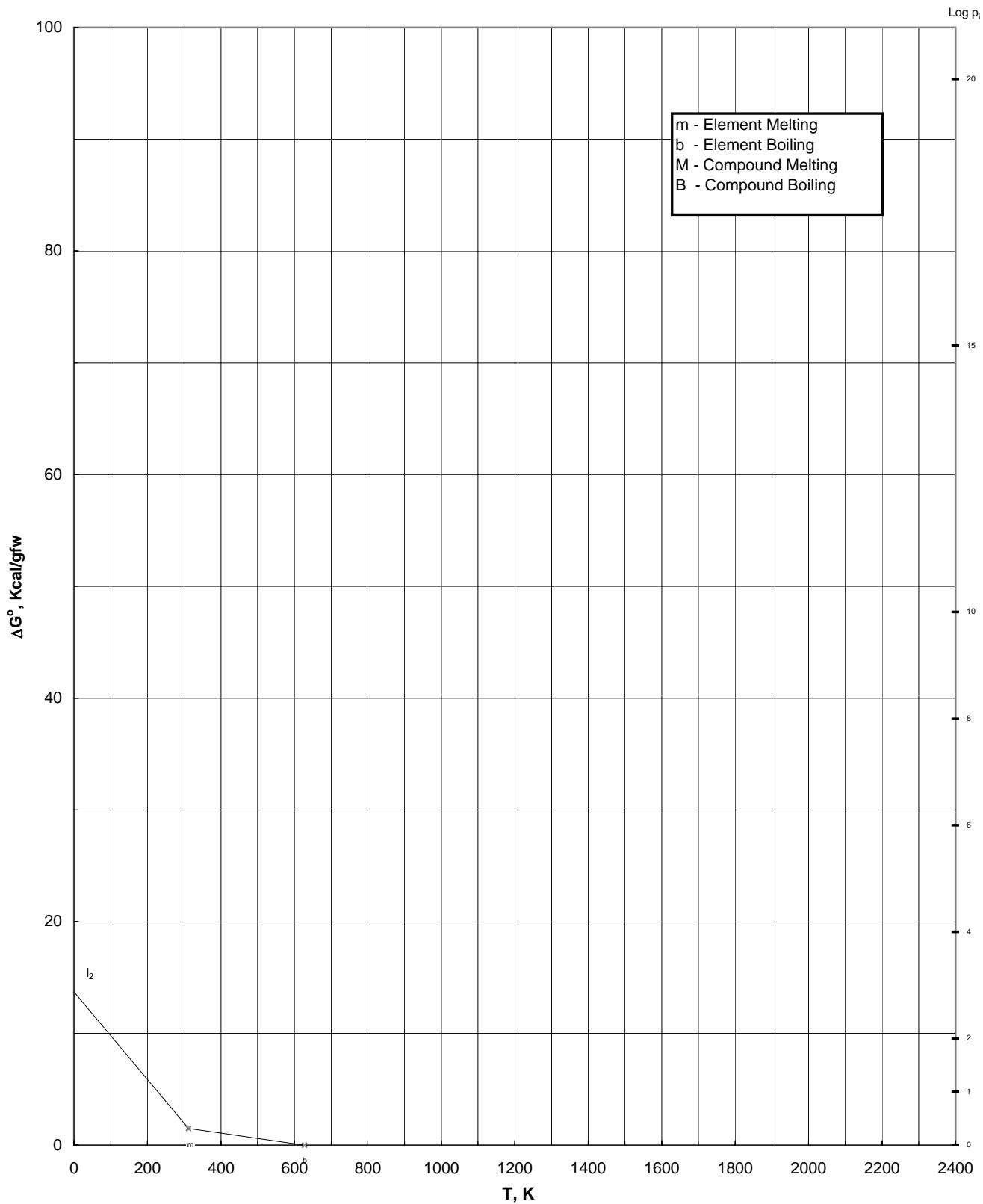
Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.



Ellingham Diagram for Selected Iodides: Part-1

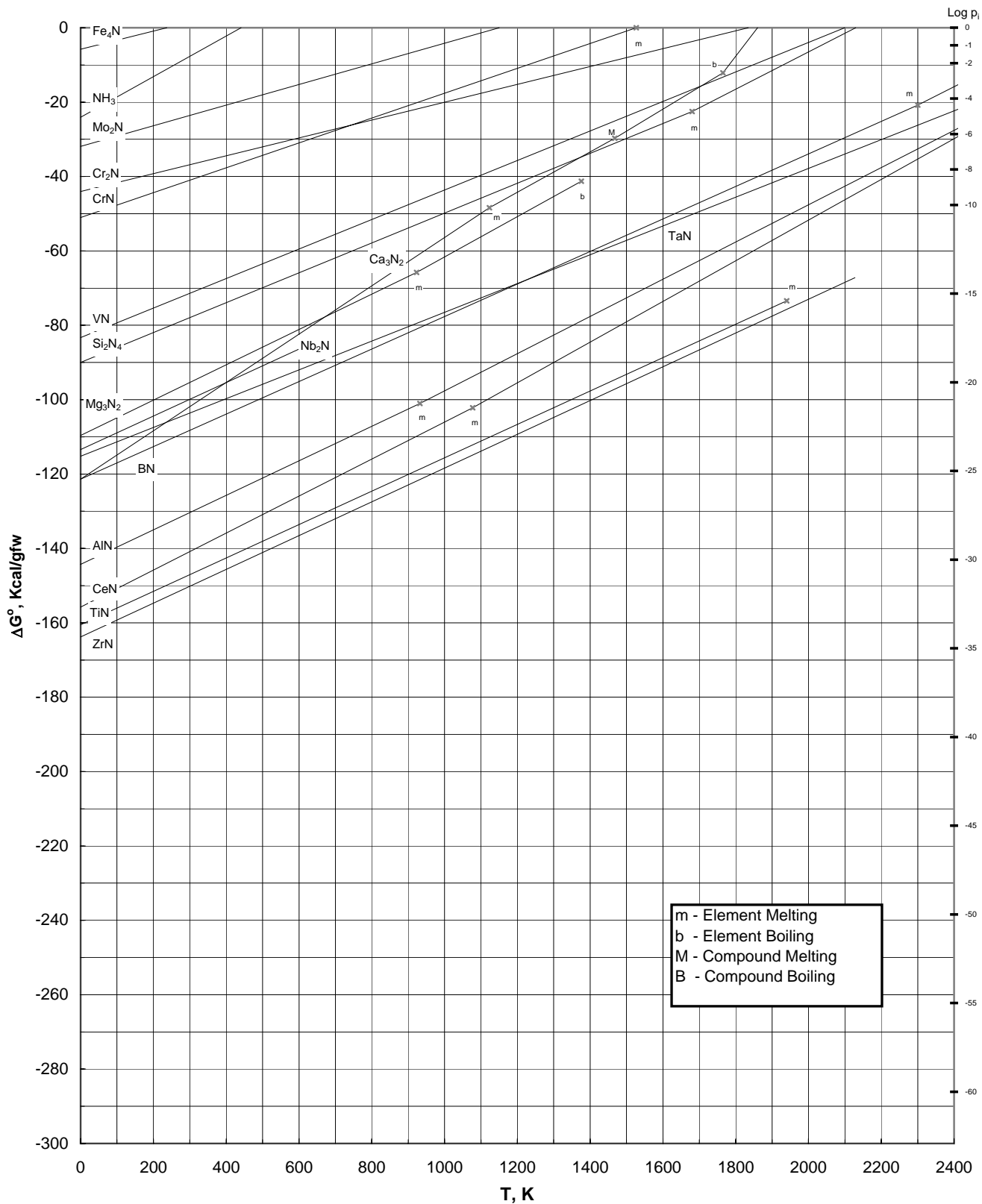
Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.

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Ellingham Diagram for Selected Iodides: Part-2

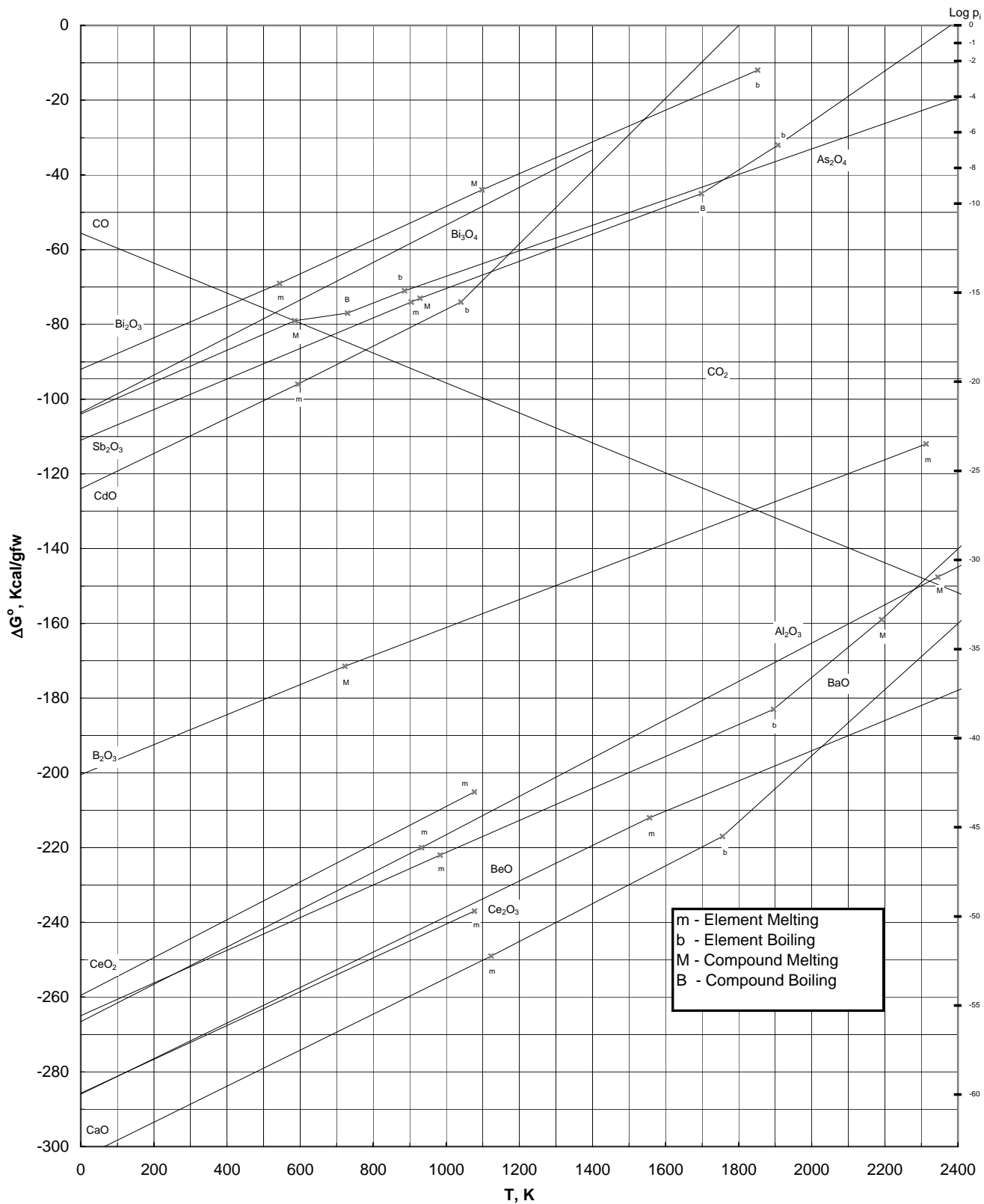
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 Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.



Ellingham Diagram for Selected Nitrides: Part-1

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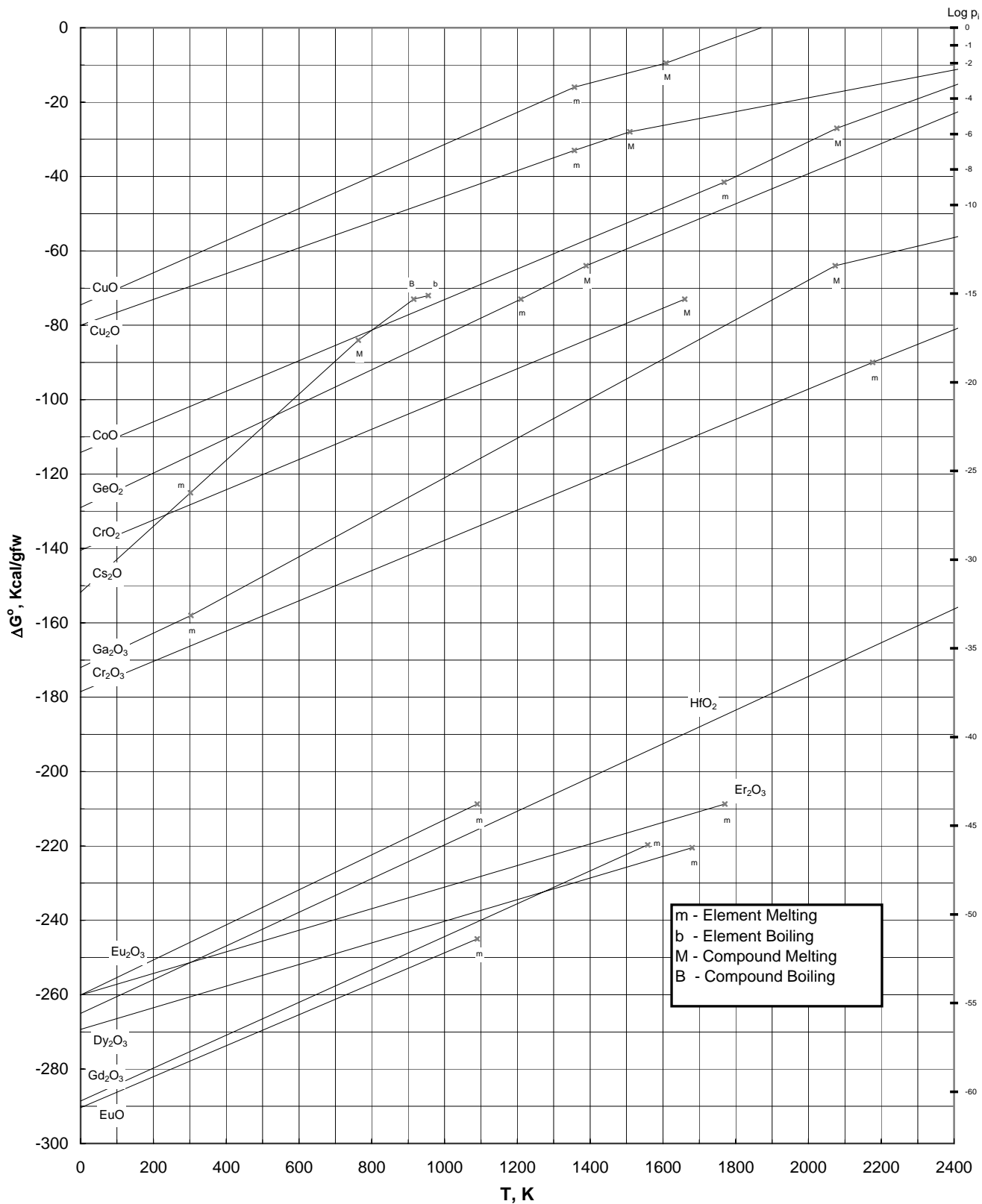
Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.



Ellingham Diagram for Selected Oxides: Part-1

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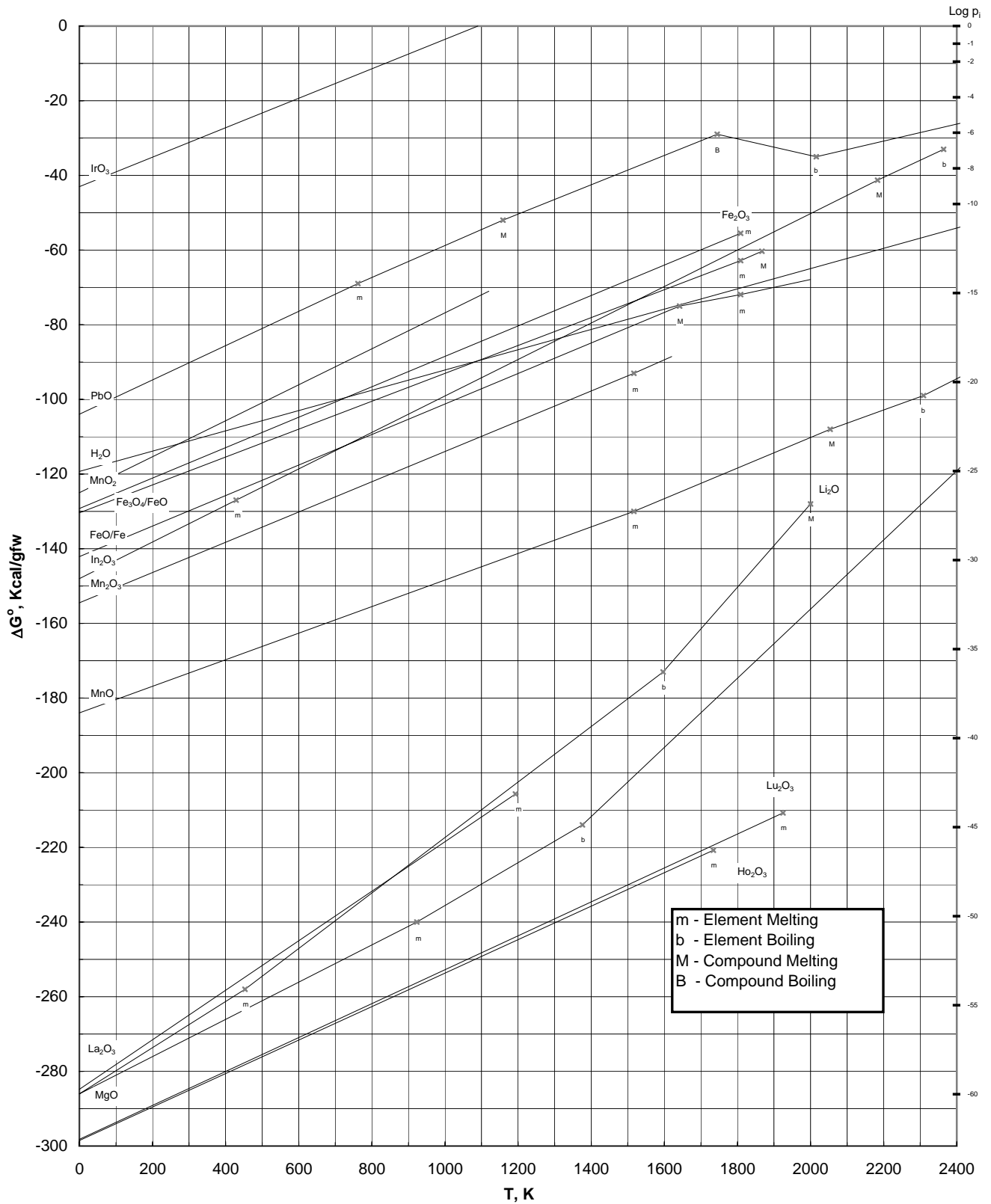
Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.



Ellingham Diagram for Selected Oxides: Part-2

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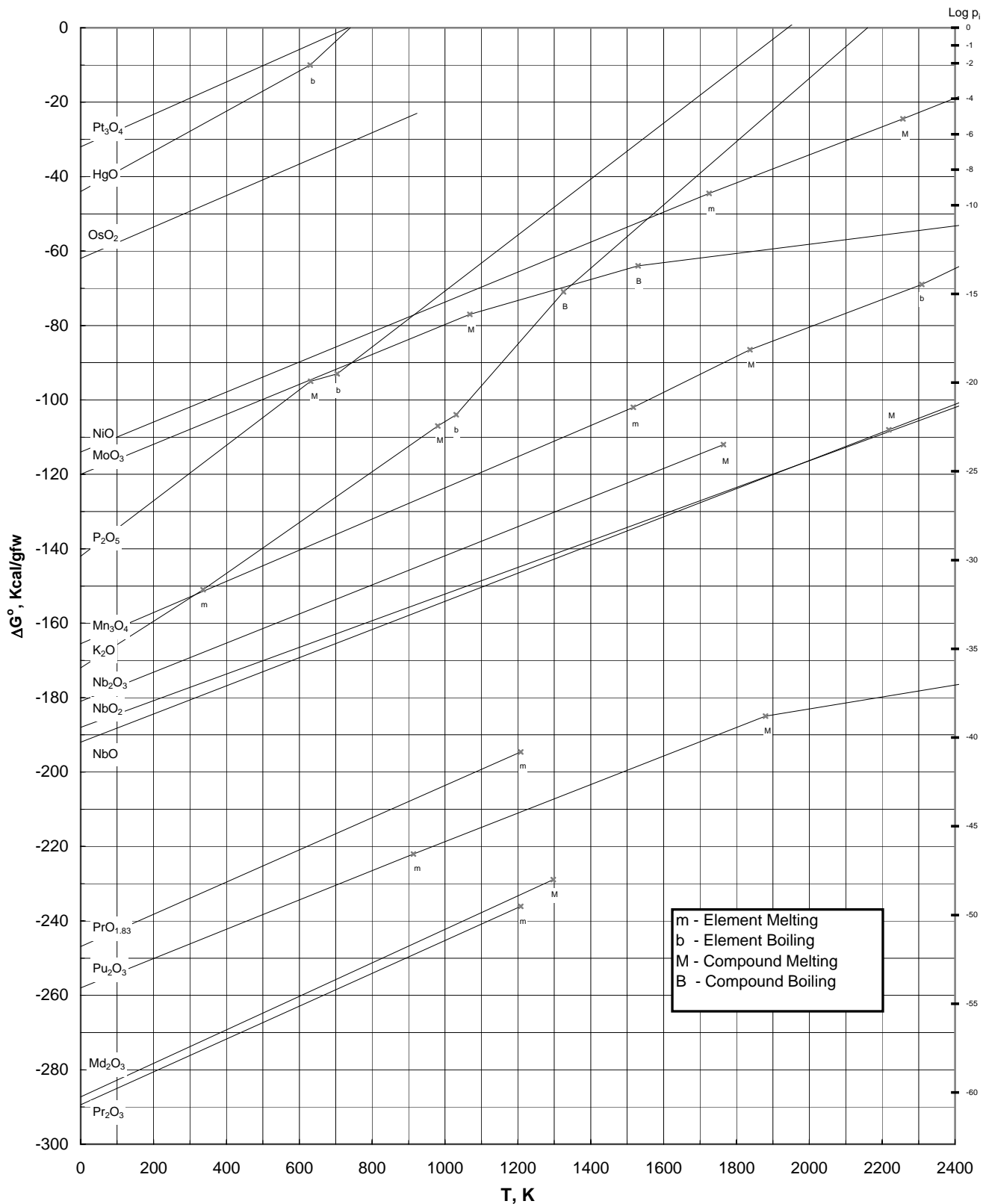
Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.



Ellingham Diagram for Selected Oxides: Part-3

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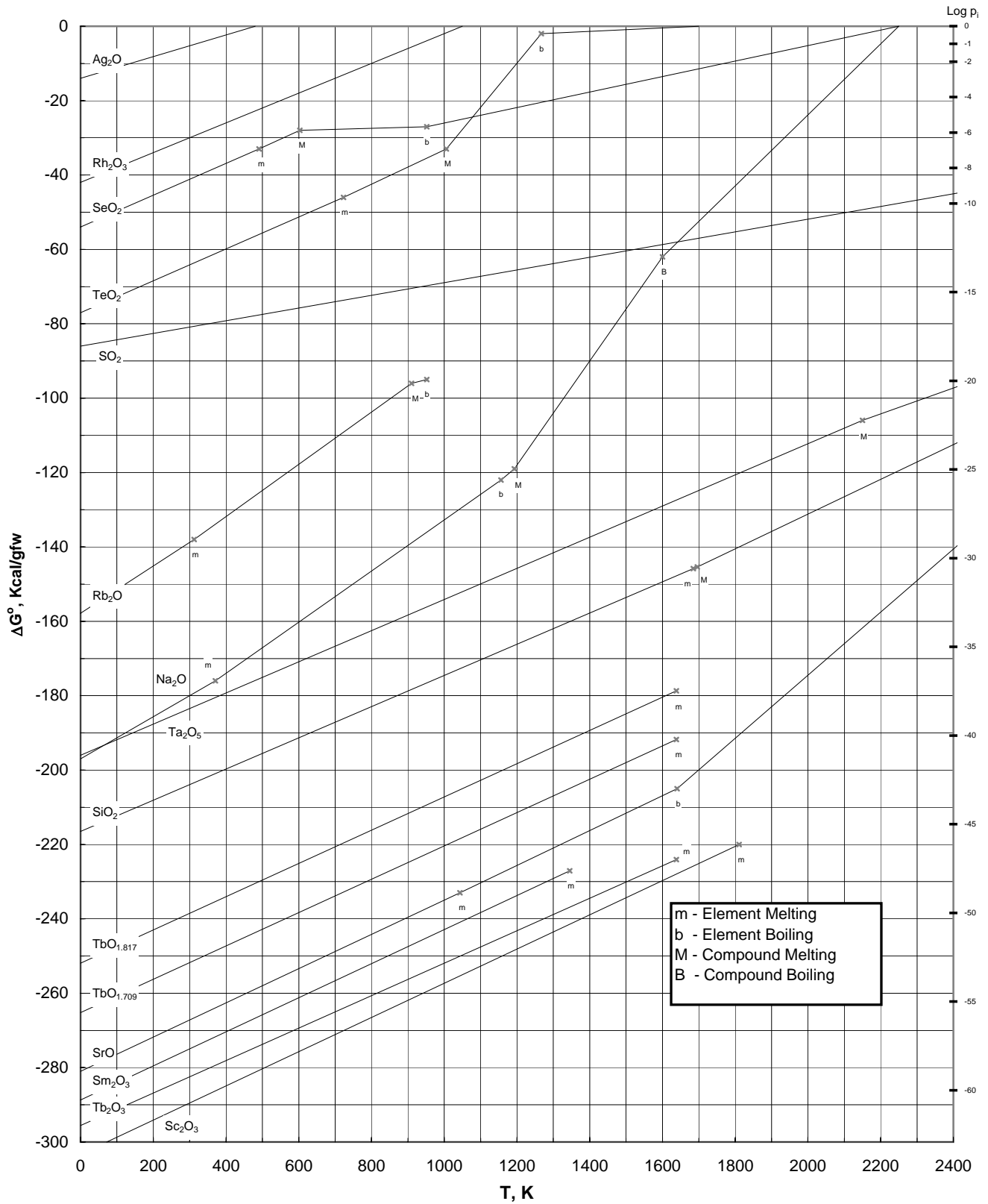
Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.



Ellingham Diagram for Selected Oxides: Part-4

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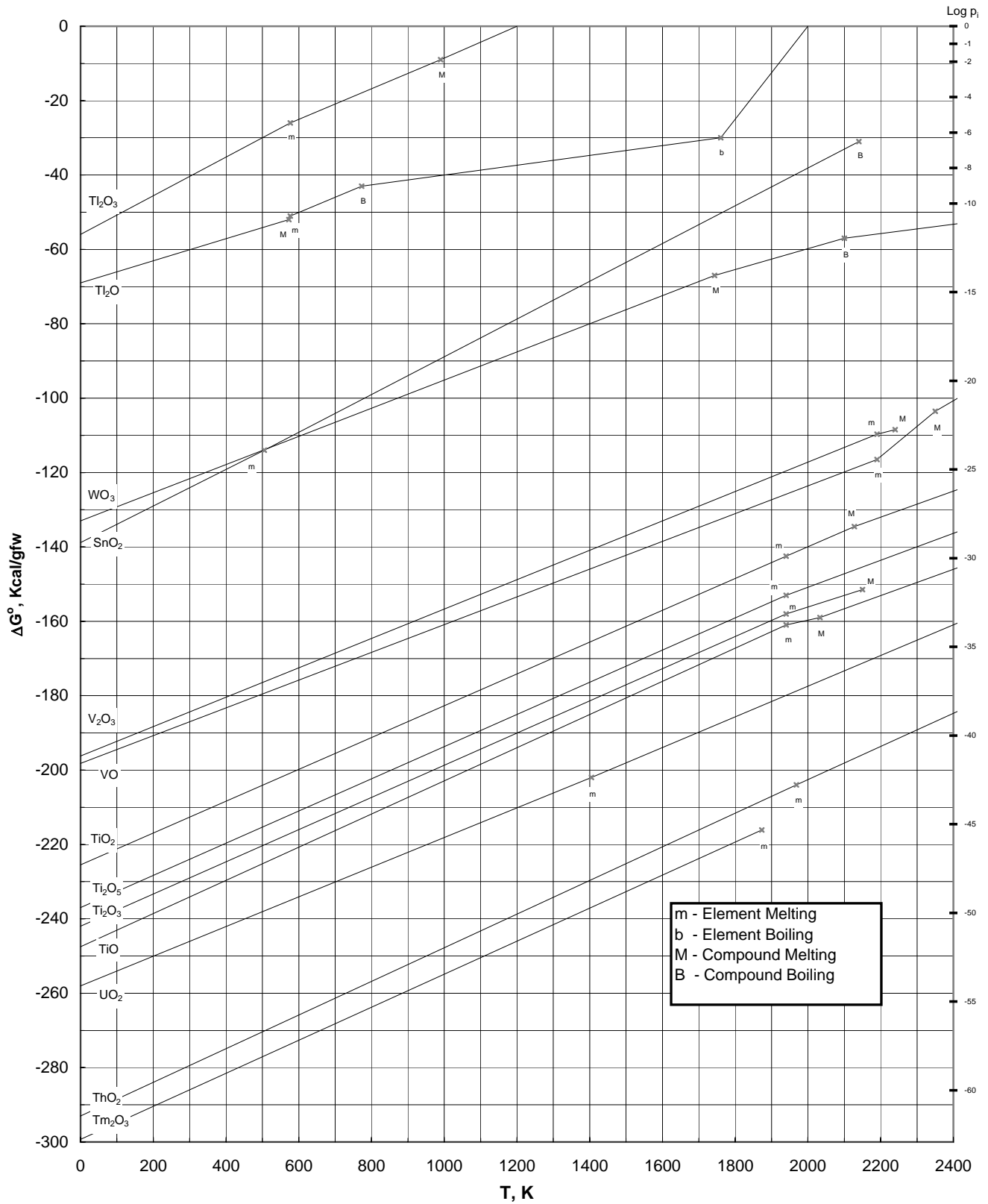
Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.



Ellingham Diagram for Selected Oxides: Part-5

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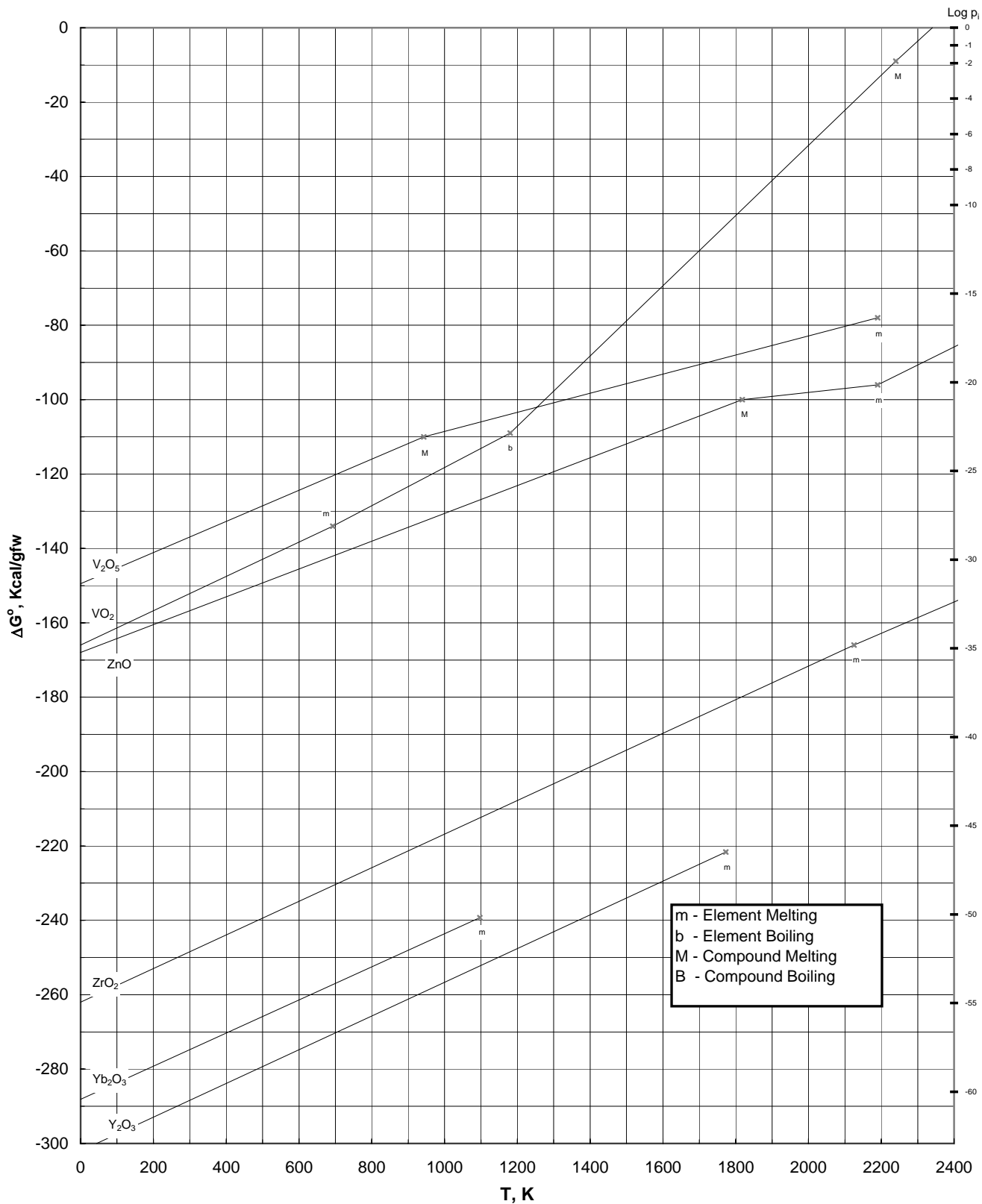
Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.



Ellingham Diagram for Selected Oxides: Part-6

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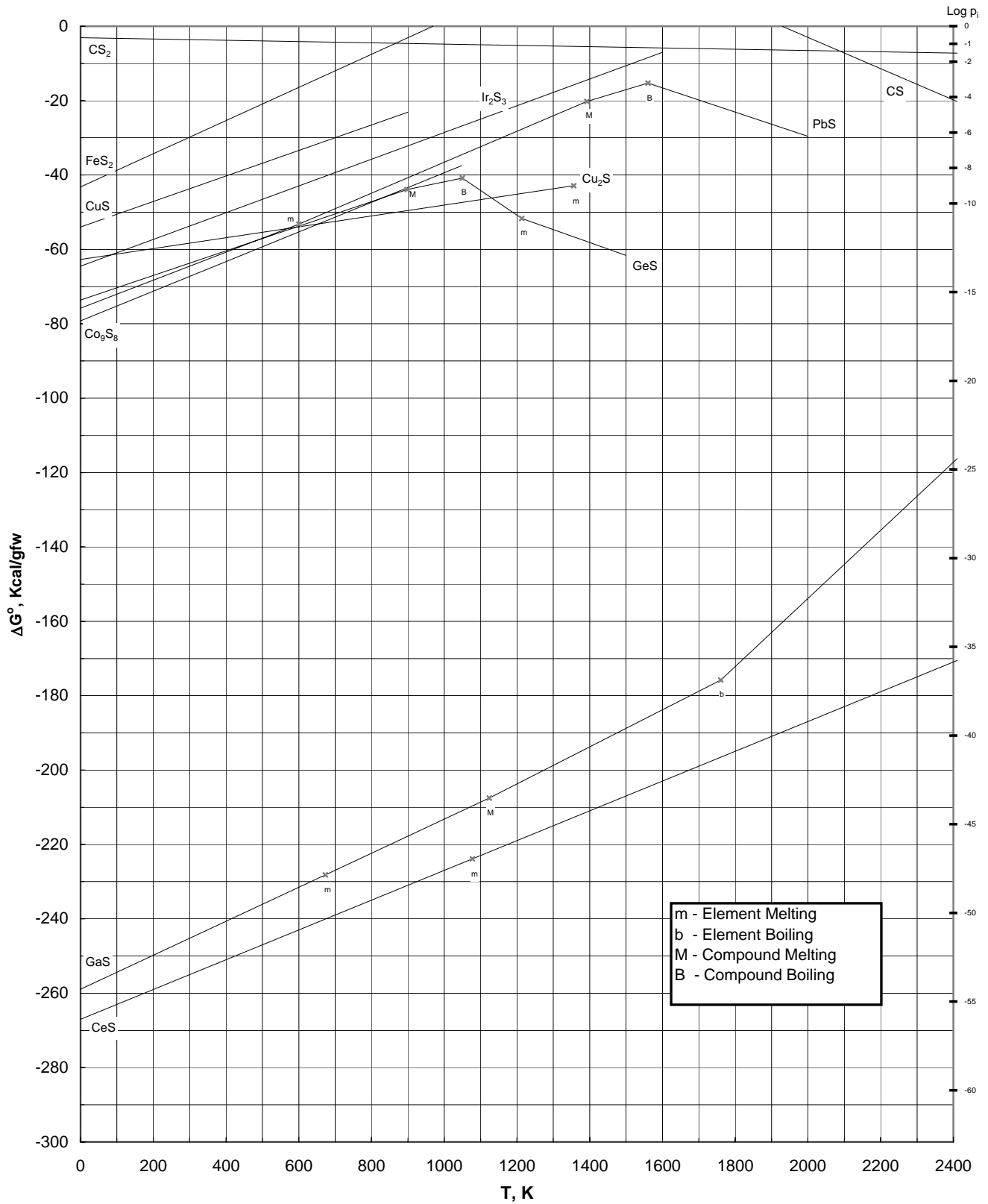
Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.



Ellingham Diagram for Selected Oxides: Part-7

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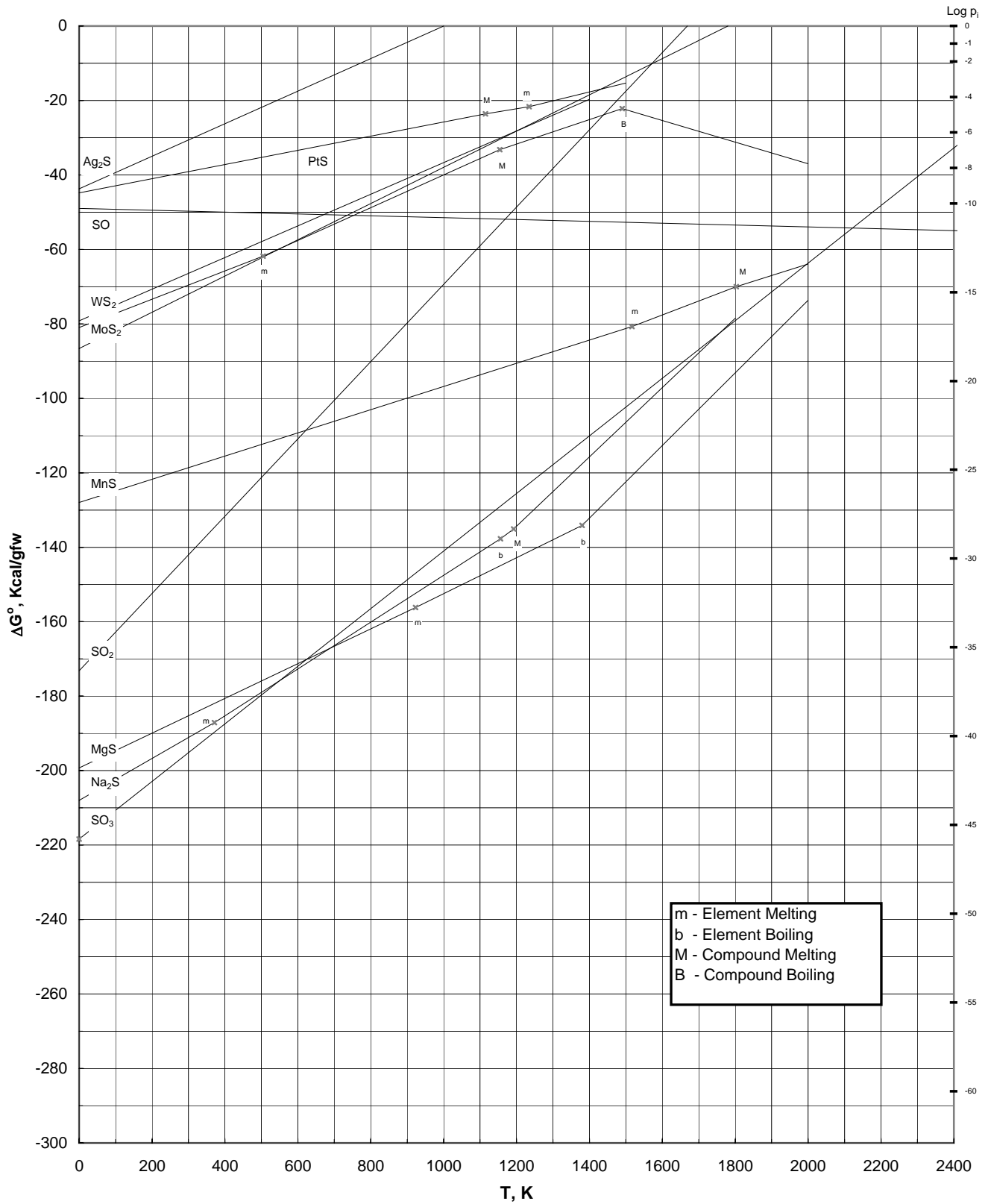
Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.



Ellingham Diagram for Selected Sulfides: Part-1

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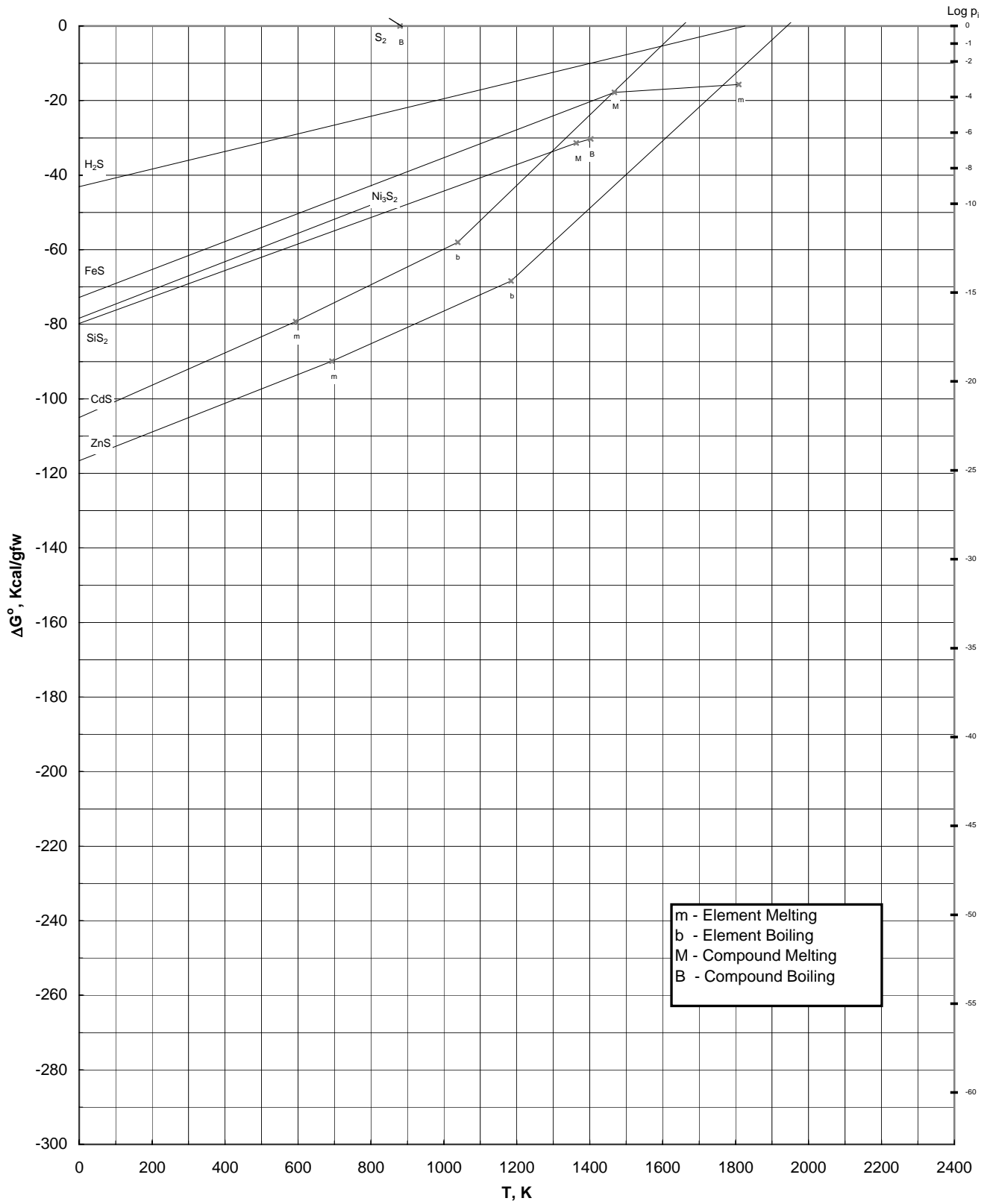
Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.



Ellingham Diagram for Selected Sulfides: Part-2

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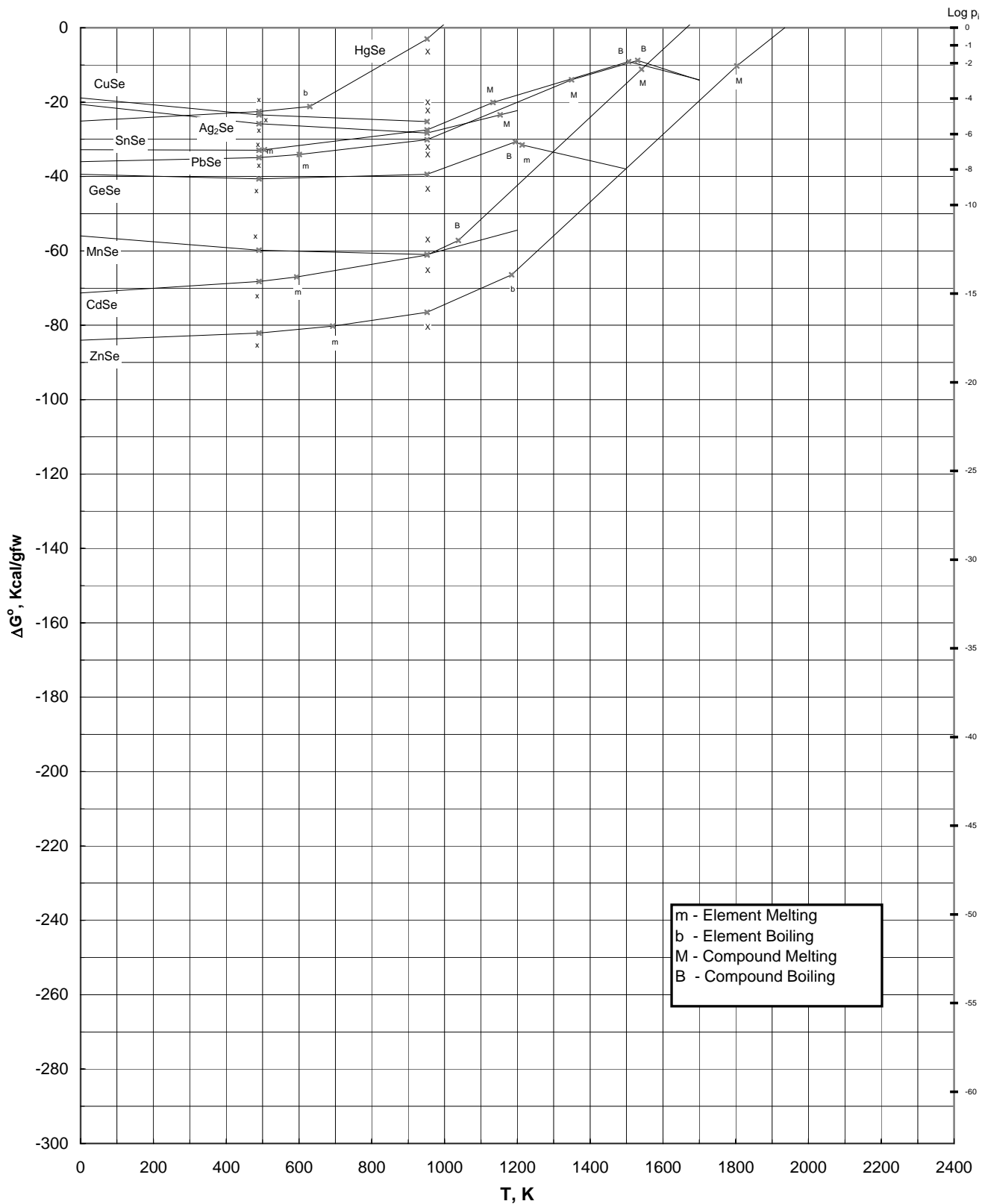
Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.



Ellingham Diagram for Selected Sulfides: Part-3

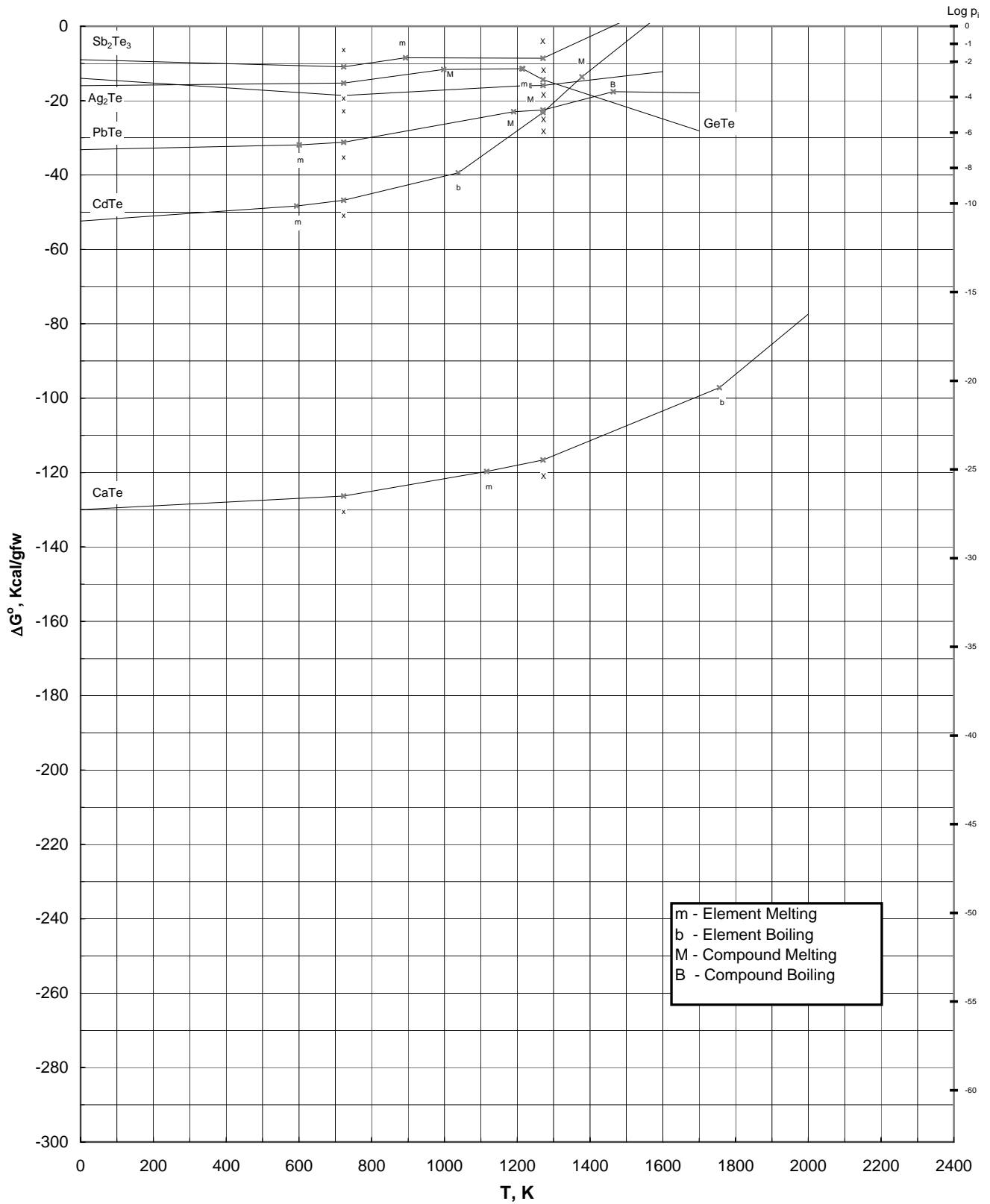
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Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.



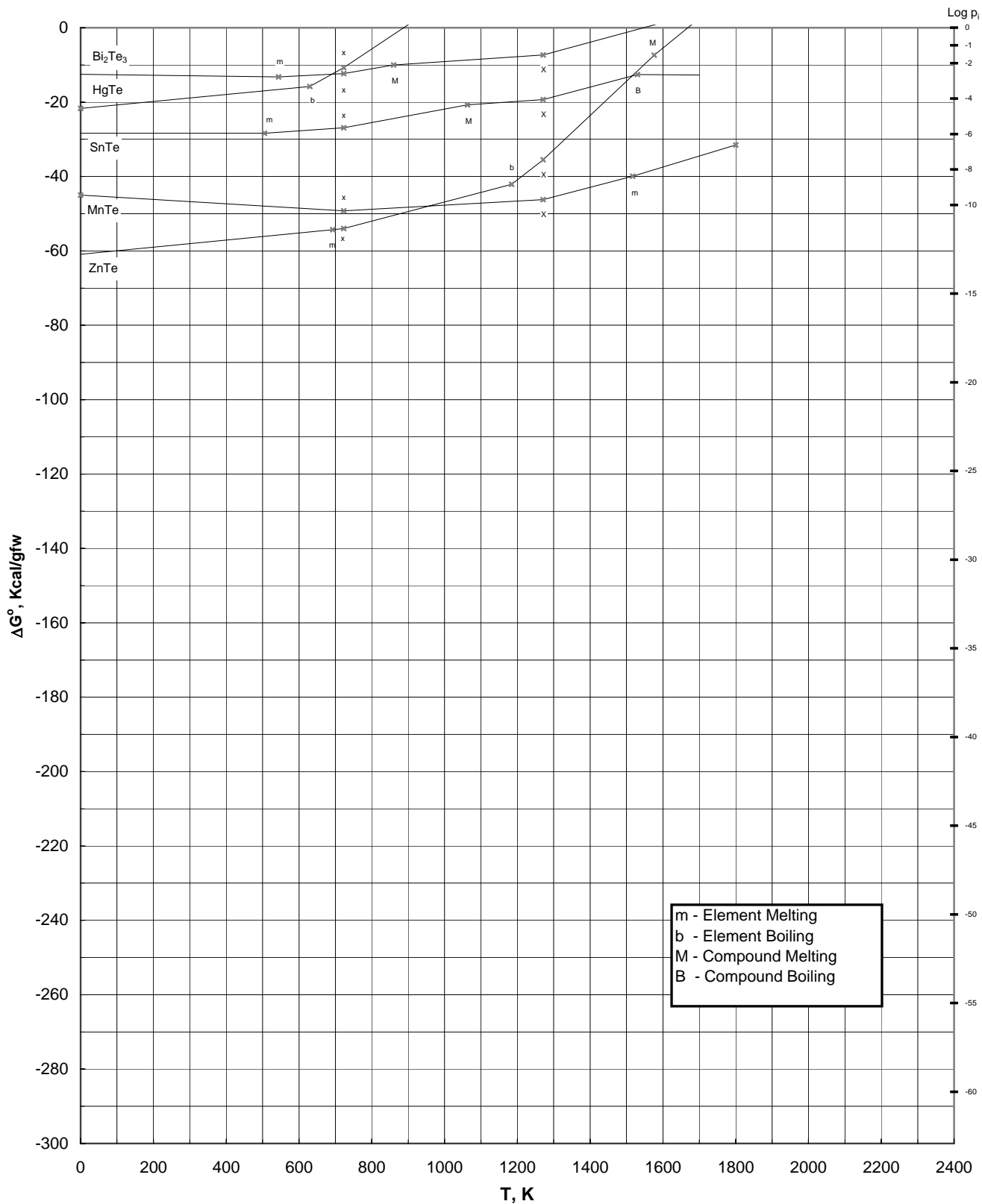
Ellingham Diagram for Selected Selenides: Part-1

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 Data from Thomas B. Reed, Free Energy of Formation of Binary Compounds, MIT Press, Cambridge, MA, 1971.



Ellingham Diagram for Selected Tellurides: Part-1

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Ellingham Diagram for Selected Tellurides: Part-2

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