

DS 4A

**PHYSICAL CONSTANTS OF
HYDROCARBONS C₁ to C₁₀**

Prepared by

ASTM Committee D-2
on Petroleum Products and Lubricants
and
API Research Project 44 on
Hydrocarbons and Related Compounds

ASTM DATA SERIES PUBLICATION DS 4A



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Foreword

The tabulation of the physical constants of C₁ to C₁₀ hydrocarbons, shown as Tables 1C1.1 through 1C1.17, is based upon a revision of *Data Series 4* prepared for publication by Committee D-2 on Petroleum Products and Lubricants of the American Society for Testing and Materials. Constants in both the U.S. and metric systems are tabulated.

The major source of data for the tabulation is the findings of API Research Project 44, Data on Hydrocarbons and Related Compounds. These data are either selected critically, calculated precisely, or of good experimental quality. Data included from other sources are shown in italics. Estimated values of properties are shown in parentheses. The atomic weights used are based on oxygen = 15.9994, carbon = 12.011, and hydrogen = 1.0080.

Related ASTM Publications

**Manual on Hydrocarbon Analysis, STP 332A (1968),
\$16.00**

**Automated Analyzers and Quality Control for the
Petroleum Industry, STP 428 (1968), \$3.50**

