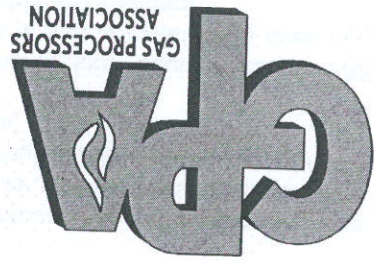


**Calculation of Gross Heating Value,
Relative Density, Compressibility and
Theoretical Hydrocarbon Liquid
Content for Natural Gas Mixtures for
Custody Transfer**

GPA Standard 2172-09

**API Manual of Petroleum Measurement Standards
Chapter 14.5**



THIRD EDITION, JANUARY 2009
ADOPTED AS TENTATIVE STANDARD, 1972
REVISED AND ADOPTED AS STANDARD, 1976
REVISED 1984, 1986, 1996, 2009

GAS PROCESSORS ASSOCIATION
6526 EAST 60TH STREET
TULSA, OKLAHOMA 74145

AMERICAN PETROLEUM INSTITUTE
1220 L STREET, NW
WASHINGTON, DC 20005



API Special Notes

API publications necessarily address problems of a general nature. With respect to particular circumstances, local, state, and federal laws and regulations should be reviewed.

Neither API nor any of API's employees, subcontractors, consultants, committees, or other assignees make any warranty or representation, either express or implied, with respect to the accuracy, completeness, or usefulness of the information contained herein, or assume any liability or responsibility for any use, or the results of such use, of any information or process disclosed in this publication. Neither API nor any of API's employees, subcontractors, consultants, or other assignees represent that use of this publication would not infringe upon privately owned rights.

Users of this standard should not rely exclusively on the information contained in this document. Sound business, scientific, engineering, and safety judgement should be used in employing the information contained herein.

API publications may be used by anyone desiring to do so. Every effort has been made by the Institute to assure the accuracy and reliability of the data contained in them; however, the Institute makes no representation, warranty, or guarantee in connection with this publication and hereby expressly disclaims any liability or responsibility for loss or damage resulting from its use or for the violation of any authorities having jurisdiction with which this publication may conflict. API makes no warranties, express or implied for reliance on or any omissions from the information or equations contained in this document. The examples given in this document are for illustration purposes only. They are not to be considered exclusive or exhaustive in nature.

API publications are published to facilitate the broad availability of proven, sound engineering and operating practices. These publications are not intended to obviate the need for applying sound engineering judgment regarding when and where these publications should be utilized. The formulation and publication of API publications is not intended in any way to inhibit anyone from using any other practices.

Any manufacturer marking equipment or materials in conformance with the marking requirements of an API standard is solely responsible for complying with all the applicable requirements of that standard. API does not represent, warrant, or guarantee that such products do in fact conform to the applicable API standard.

GPA Disclaimer

GPA publications necessarily address problems of a general nature and may be used by anyone desiring to do so. With respect to particular circumstances, local, state, and federal laws and regulations should be reviewed. It is not the intent of GPA to assume the duties of employers, manufacturers, or suppliers to warn and properly train employees, or others exposed, concerning health and safety risks or precautions.

GPA makes no representation, warranty, or guarantee in connection with this publication and hereby expressly disclaims any liability or responsibility for loss or damage resulting from its use or for the violation of any federal, state, or municipal regulation with which this publication may conflict, or for any infringement of letters of patent regarding apparatus, equipment, or method so covered.