

## *Api Gravity Temperature Correction Table 5a Book*



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### **Api Gravity Temperature Correction Table**

API Gravity Temperature Correction Definition: Definition of API Gravity Correction: Estimate API Gravity at 60° F: 1) Usually, your API gravity reading will be at a temperature other than 60°F. To convert an API gravity reading to 60°F, we usually use ASTM Table 5B. The left and right margins of the table are annotated with the temperature.

### **API Gravity Temperature Correction Online Calculator ...**

API Gravity Correction for Temperature In this spreadsheet, just type in the required information and press the compute button. Scroll down for more info.

### **API Gravity Correction for Temperature - iOilfield**

Corrected gravity and volume correction factors calculated by this program are the same as values obtained from the Petroleum Measurement Tables 5A and 6A prepared jointly by ASTM, API, and IP. Calculations are valid on data within the following ranges: Temperatures: 0 - 149.5 F Observed Gravity : 10 - 74.5 API SYSTEM REQUIREMENTS. PC computer.

### **Correct Volumes API Gravity Temperature Correction Tables ...**

Figure I-2. Using Table 5A/B, correct the API gravity of the observed temperature to API gravity at 60° F. Table 5A is used for JP-4 and Table 5B is used for petroleum products other than JP-4. Example: Assume the observed hydrometer reading is 40.4 and the observed temperature is 83° F. The product is not JP-4.

### **APPENDIX I VOLUME CONVERSION ASTM/API/IP TABLE 5A/B**

When using U.S. Customary Units, the density (in API Gravity) and the temperature (in Fahrenheit) are based on 0.1 degree. □ Incorporated the 1988 IP Tables (59ABD, 60 ABD), which are technically equivalent to ISO 91-2 using 20 °C as the reference temperature.

### **Volume Correction Factor Calculation Development in ...**

Military. Using Table 5A/B, correct the API gravity of the observed temperature to API gravity at 60 ° F. Table 5A is used for JP-4 and Table 5B is used for petroleum products other than JP-4. Example: Assume the observed hydrometer reading is 40.4 and the observed temperature is 83 ° F. The product is not JP-4.

### **FM 10-67-1 APPENDIX I - GlobalSecurity.org**

ThermoTab - Volume Correction Factors. Input Parameters Commodity Crude Oil Initial Final Step Size. Unit alpha-60 Obs. Temp. 0.1 °F Range: -58 to 302 Density 0.1 deg. API Range: -13.4 to 168.9 Alt. Temp.

### **ThermoProbe - Volume Correction Factor**

Specific Gravity Temperature Correction Calculator This calculator makes temperature corrections easy to figure out. Be sure to check and see what your hydrometer is calibrated for, while most hydrometers are calibrated to be accurate at 68 degrees (F) / 20 degrees (C) not all of them are.

### **Specific Gravity Temperature Correction Calculator ...**

CPL, and CTPL) may be used as specified in other API Manual of Petroleum Measurement Standards (MPMS) Chapters. Including the pressure correction in this Standard represents an important change from the "temperature only" 1980 Tables. However, if the pressure is one atmosphere (the standard pressure) then there is no pressure correction and

### **Manual of Petroleum Measurement Standards ... - api.org**

This Tip of the Month describes simple equations to approximate changes to the properties of crude oil with changing temperature. Changes in crude oil density and specific heat, or heat capacity, can be estimated from graphs and/or more elaborate computer simulation.

### **Simple Equations to Approximate Changes to the Properties ...**

Petroleum Measurement Tables (ASTM D 1250) for Pocket PC ... Correction of Observed API Gravity to API Gravity at 60°F • API Gravity at 60°F (B) Table 5B: Generalized Products, Correction of ... or Density) and the temperature (°F or °C) into the according input fields. If you don't want to use Glass

### **Petroleum Measurement Tables (ASTM D 1250)**

THE AMERICAN PETROLEUM INSTITUTE (API) has joined forces with Flow-Cal to develop, support and distribute the standard and code for API's Manual of Petroleum Measurement Standards, Chapter 11 - Physical Properties Data, Section 1 - Temperature and Pressure Volume Correction Factors for Generalized Crude Oils, Refined Products, and Lubricating Oils.

### **API MPMS Ch. 11.1 | Flow-Cal**

If you have the fuel oil density given in °API, use the API-to-gravity converter. See also similar correlations for lubricating oil, crude oil and jet fuel. Volume correction factors can be used to calculate the volume of a product at base temperature (15°C/59°F) if you know the density and volume at another temperature.

### **Density of fuel oils as function of temperature**

The American Petroleum Institute gravity, or API gravity, is a measure of how heavy or light a petroleum liquid is compared to water: if its API gravity is greater than 10, it is lighter and floats on water; if less than 10, it is heavier and sinks.. API gravity is thus an inverse measure of a petroleum liquid's density relative to that of water (also known as specific gravity).

### **API gravity - Wikipedia**

apps.dtic.mil

### **apps.dtic.mil**

Correct Volumes© corrects observed API gravity of crude oils at an observed temperature to API gravity at 60° F. It then corrects an observed volume at an observed temperature to a corrected volume based upon the previously calculated API gravity at 60° F. HOW TO USE Entering Data 1. Enter the Observed Gravity. Press the TAB key. 2.

### **Displays corrected gravity & volume. - DataBase Concepts**

Update - October 2012 A browser cookie will now save your hydrometer calibration between visits (but if you clear your cache it disappears). Update - August 2012 This calculator now supports different hydrometer calibrations. Look on your hydrometer (or its instructions) and it should tell you. Old hydrometers are calibrated to (59° F / 15° C) and newer ones are typically (68° F / 20° C).

### **Hydrometer Temperature Adjustment Calculator - Brewer's Friend**

This procedure is most suitable for determining the API gravity of low viscosity transparent liquids. This test method can also be used for viscous liquids by allowing sufficient time for the hydrometer to reach temperature equilibrium, and for opaque liquids by employing a suitable meniscus correction.

### **ASTM D287 - 12b Standard Test Method for API Gravity of ...**

API GRAVITY & DENSITY CALCULATORS (3-04) BULLETIN 100 GAMMON GAMMON TECHNICAL PRODUCTS, INC. P.O.BOX 400 - 2300 HWY 34 MANASQUAN, N.J. 08736 PHONE FAX WEBSITE STORE 732-223-4600 732-223-5778 www.gammontech.com www.gammontechstore.com API GRAVITY AND DENSITY CALCULATORS API GRAVITY CALCULATOR GTP-3012-1A Corrects API hydrometer readings at any

### **GAMMON TECHNICAL PRODUCTS, INC. P.O.BOX 400 - 2300 HWY 34 ...**

Density at 15 Deg C and ASTM table to use; API Gravity at 60 Deg F and ASTM Table to use; Let us calculate the weight of cargo in each of these situations. 1. Density at a particular temperature and correction factor. So let us say that cargo surveyor has provided us with the density at a particular

temperature and correction factor.

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