

# FLUENT-PRO Engineering Software

Calculation of Gas Properties - FLUENT Engineering Software - 98 Edition - First Edition 1998

Version 1.000

## CALCULATION TITLE

Gas	Formula	Molar Wt	Uniformly Approximated
CH4	CH4	16.043	Y
C2H6	C2H6	30.070	Y
C3H8	C3H8	44.097	Y
i-C4H10	i-C4H10	58.122	Y
n-C4H10	n-C4H10	58.122	Y
i-C5H12	i-C5H12	72.150	Y
n-C5H12	n-C5H12	72.150	Y
i-C6H14	i-C6H14	86.178	Y
n-C6H14	n-C6H14	86.178	Y
i-C7H16	i-C7H16	100.206	Y
n-C7H16	n-C7H16	100.206	Y
i-C8H18	i-C8H18	114.230	Y
n-C8H18	n-C8H18	114.230	Y
i-C9H20	i-C9H20	128.254	Y
n-C9H20	n-C9H20	128.254	Y
i-C10H22	i-C10H22	142.278	Y
n-C10H22	n-C10H22	142.278	Y
i-C11H24	i-C11H24	156.302	Y
n-C11H24	n-C11H24	156.302	Y
i-C12H26	i-C12H26	170.326	Y
n-C12H26	n-C12H26	170.326	Y
i-C13H28	i-C13H28	184.350	Y
n-C13H28	n-C13H28	184.350	Y
i-C14H30	i-C14H30	198.374	Y
n-C14H30	n-C14H30	198.374	Y
i-C15H32	i-C15H32	212.398	Y
n-C15H32	n-C15H32	212.398	Y
i-C16H34	i-C16H34	226.422	Y
n-C16H34	n-C16H34	226.422	Y
i-C17H36	i-C17H36	240.446	Y
n-C17H36	n-C17H36	240.446	Y
i-C18H38	i-C18H38	254.470	Y
n-C18H38	n-C18H38	254.470	Y
i-C19H40	i-C19H40	268.494	Y
n-C19H40	n-C19H40	268.494	Y
i-C20H42	i-C20H42	282.518	Y
n-C20H42	n-C20H42	282.518	Y
i-C21H44	i-C21H44	296.542	Y
n-C21H44	n-C21H44	296.542	Y
i-C22H46	i-C22H46	310.566	Y
n-C22H46	n-C22H46	310.566	Y
i-C23H48	i-C23H48	324.590	Y
n-C23H48	n-C23H48	324.590	Y
i-C24H50	i-C24H50	338.614	Y
n-C24H50	n-C24H50	338.614	Y
i-C25H52	i-C25H52	352.638	Y
n-C25H52	n-C25H52	352.638	Y
i-C26H54	i-C26H54	366.662	Y
n-C26H54	n-C26H54	366.662	Y
i-C27H56	i-C27H56	380.686	Y
n-C27H56	n-C27H56	380.686	Y
i-C28H58	i-C28H58	394.710	Y
n-C28H58	n-C28H58	394.710	Y
i-C29H60	i-C29H60	408.734	Y
n-C29H60	n-C29H60	408.734	Y
i-C30H62	i-C30H62	422.758	Y
n-C30H62	n-C30H62	422.758	Y
i-C31H64	i-C31H64	436.782	Y
n-C31H64	n-C31H64	436.782	Y
i-C32H66	i-C32H66	450.806	Y
n-C32H66	n-C32H66	450.806	Y
i-C33H68	i-C33H68	464.830	Y
n-C33H68	n-C33H68	464.830	Y
i-C34H70	i-C34H70	478.854	Y
n-C34H70	n-C34H70	478.854	Y
i-C35H72	i-C35H72	492.878	Y
n-C35H72	n-C35H72	492.878	Y
i-C36H74	i-C36H74	506.902	Y
n-C36H74	n-C36H74	506.902	Y
i-C37H76	i-C37H76	520.926	Y
n-C37H76	n-C37H76	520.926	Y
i-C38H78	i-C38H78	534.950	Y
n-C38H78	n-C38H78	534.950	Y
i-C39H80	i-C39H80	548.974	Y
n-C39H80	n-C39H80	548.974	Y
i-C40H82	i-C40H82	562.998	Y
n-C40H82	n-C40H82	562.998	Y
i-C41H84	i-C41H84	577.022	Y
n-C41H84	n-C41H84	577.022	Y
i-C42H86	i-C42H86	591.046	Y
n-C42H86	n-C42H86	591.046	Y
i-C43H88	i-C43H88	605.070	Y
n-C43H88	n-C43H88	605.070	Y
i-C44H90	i-C44H90	619.094	Y
n-C44H90	n-C44H90	619.094	Y
i-C45H92	i-C45H92	633.118	Y
n-C45H92	n-C45H92	633.118	Y
i-C46H94	i-C46H94	647.142	Y
n-C46H94	n-C46H94	647.142	Y
i-C47H96	i-C47H96	661.166	Y
n-C47H96	n-C47H96	661.166	Y
i-C48H98	i-C48H98	675.190	Y
n-C48H98	n-C48H98	675.190	Y
i-C49H100	i-C49H100	689.214	Y
n-C49H100	n-C49H100	689.214	Y
i-C50H102	i-C50H102	703.238	Y
n-C50H102	n-C50H102	703.238	Y
i-C51H104	i-C51H104	717.262	Y
n-C51H104	n-C51H104	717.262	Y
i-C52H106	i-C52H106	731.286	Y
n-C52H106	n-C52H106	731.286	Y
i-C53H108	i-C53H108	745.310	Y
n-C53H108	n-C53H108	745.310	Y
i-C54H110	i-C54H110	759.334	Y
n-C54H110	n-C54H110	759.334	Y
i-C55H112	i-C55H112	773.358	Y
n-C55H112	n-C55H112	773.358	Y
i-C56H114	i-C56H114	787.382	Y
n-C56H114	n-C56H114	787.382	Y
i-C57H116	i-C57H116	801.406	Y
n-C57H116	n-C57H116	801.406	Y
i-C58H118	i-C58H118	815.430	Y
n-C58H118	n-C58H118	815.430	Y
i-C59H120	i-C59H120	829.454	Y
n-C59H120	n-C59H120	829.454	Y
i-C60H122	i-C60H122	843.478	Y
n-C60H122	n-C60H122	843.478	Y
i-C61H124	i-C61H124	857.502	Y
n-C61H124	n-C61H124	857.502	Y
i-C62H126	i-C62H126	871.526	Y
n-C62H126	n-C62H126	871.526	Y
i-C63H128	i-C63H128	885.550	Y
n-C63H128	n-C63H128	885.550	Y
i-C64H130	i-C64H130	899.574	Y
n-C64H130	n-C64H130	899.574	Y
i-C65H132	i-C65H132	913.598	Y
n-C65H132	n-C65H132	913.598	Y
i-C66H134	i-C66H134	927.622	Y
n-C66H134	n-C66H134	927.622	Y
i-C67H136	i-C67H136	941.646	Y
n-C67H136	n-C67H136	941.646	Y
i-C68H138	i-C68H138	955.670	Y
n-C68H138	n-C68H138	955.670	Y
i-C69H140	i-C69H140	969.694	Y
n-C69H140	n-C69H140	969.694	Y
i-C70H142	i-C70H142	983.718	Y
n-C70H142	n-C70H142	983.718	Y
i-C71H144	i-C71H144	997.742	Y
n-C71H144	n-C71H144	997.742	Y
i-C72H146	i-C72H146	1011.766	Y
n-C72H146	n-C72H146	1011.766	Y
i-C73H148	i-C73H148	1025.790	Y
n-C73H148	n-C73H148	1025.790	Y
i-C74H150	i-C74H150	1039.814	Y
n-C74H150	n-C74H150	1039.814	Y
i-C75H152	i-C75H152	1053.838	Y
n-C75H152	n-C75H152	1053.838	Y
i-C76H154	i-C76H154	1067.862	Y
n-C76H154	n-C76H154	1067.862	Y
i-C77H156	i-C77H156	1081.886	Y
n-C77H156	n-C77H156	1081.886	Y
i-C78H158	i-C78H158	1095.910	Y
n-C78H158	n-C78H158	1095.910	Y
i-C79H160	i-C79H160	1109.934	Y
n-C79H160	n-C79H160	1109.934	Y
i-C80H162	i-C80H162	1123.958	Y
n-C80H162	n-C80H162	1123.958	Y
i-C81H164	i-C81H164	1137.982	Y
n-C81H164	n-C81H164	1137.982	Y
i-C82H166	i-C82H166	1152.006	Y
n-C82H166	n-C82H166	1152.006	Y
i-C83H168	i-C83H168	1166.030	Y
n-C83H168	n-C83H168	1166.030	Y
i-C84H170	i-C84H170	1180.054	Y
n-C84H170	n-C84H170	1180.054	Y
i-C85H172	i-C85H172	1194.078	Y
n-C85H172	n-C85H172	1194.078	Y
i-C86H174	i-C86H174	1208.102	Y
n-C86H174	n-C86H174	1208.102	Y
i-C87H176	i-C87H176	1222.126	Y
n-C87H176	n-C87H176	1222.126	Y
i-C88H178	i-C88H178	1236.150	Y
n-C88H178	n-C88H178	1236.150	Y
i-C89H180	i-C89H180	1250.174	Y
n-C89H180	n-C89H180	1250.174	Y
i-C90H182	i-C90H182	1264.198	Y
n-C90H182	n-C90H182	1264.198	Y
i-C91H184	i-C91H184	1278.222	Y
n-C91H184	n-C91H184	1278.222	Y
i-C92H186	i-C92H186	1292.246	Y
n-C92H186	n-C92H186	1292.246	Y
i-C93H188	i-C93H188	1306.270	Y
n-C93H188	n-C93H188	1306.270	Y
i-C94H190	i-C94H190	1320.294	Y
n-C94H190	n-C94H190	1320.294	Y
i-C95H192	i-C95H192	1334.318	Y
n-C95H192	n-C95H192	1334.318	Y
i-C96H194	i-C96H194	1348.342	Y
n-C96H194	n-C96H194	1348.342	Y
i-C97H196	i-C97H196	1362.366	Y
n-C97H196	n-C97H196	1362.366	Y
i-C98H198	i-C98H198	1376.390	Y
n-C98H198	n-C98H198	1376.390	Y
i-C99H200	i-C99H200	1390.414	Y
n-C99H200	n-C99H200	1390.414	Y
i-C100H202	i-C100H202	1404.438	Y
n-C100H202	n-C100H202	1404.438	Y

Enter details and data into the cells with a yellow background only.  
 Enter details and data into the right side and proceed the calculation.  
 Most Gas, C<sub>2</sub> and C<sub>3</sub> are calculated using the Redlich-Kwong EOS.  
 Data can be entered and calculated from the Library at the right by highlighting  
 and copying the data within the green border and "pasting values" into the Library.

Molar Wt:  kg/kmol  
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# Gpsa Engineering Data Si Units

**Stephen M Hall**



## **Gpsa Engineering Data Si Units:**

**Petroleum Refining Design and Applications Handbook, Volume 3** A. Kayode Coker, 2022-06-21 PETROLEUM REFINING The third volume of a multi volume set of the most comprehensive and up to date coverage of the advances of petroleum refining designs and applications written by one of the world s most well known process engineers this is a must have for any chemical process or petroleum engineer This volume continues the most up to date and comprehensive coverage of the most significant and recent changes to petroleum refining presenting the state of the art to the engineer scientist or student This book provides the design of process equipment such as vessels for the separation of two phase and three phase fluids using Excel spreadsheets and extensive process safety investigations of refinery incidents distillation distillation sequencing and dividing wall columns It also covers multicomponent distillation packed towers liquid liquid extraction using UniSim design software and process safety incidents involving these equipment items and pertinent industrial case studies Useful as a textbook this is also an excellent handy go to reference for the veteran engineer a volume no chemical or process engineering library should be without Written by one of the world s foremost authorities this book sets the standard for the industry and is an integral part of the petroleum refining renaissance It is truly a must have for any practicing engineer or student in this area This groundbreaking new volume Assists engineers in rapidly analyzing problems and finding effective design methods and select mechanical specifications Provides improved design manuals to methods and proven fundamentals of process design with related data and charts Covers a complete range of basic day to day petroleum refining operations topics with new materials on significant industry changes Includes extensive Excel spreadsheets for the design of process vessels for mechanical separation of two phase and three phase fluids Provides UniSim based case studies for enabling simulation of key processes outlined in the book Helps achieve optimum operations and process conditions and shows how to translate design fundamentals into mechanical equipment specifications Has a related website that includes computer applications along with spreadsheets and concise applied process design flow charts and process data sheets Provides various case studies of process safety incidents in refineries and means of mitigating these from investigations by the US Chemical Safety Board Includes a vast Glossary of Petroleum and Technical Terminology

**Natural Gas Hydrates** John Carroll, 2020-05-12 Natural Gas Hydrates Fourth Edition provides a critical reference for engineers who are new to the field Covering the fundamental properties thermodynamics and behavior of hydrates in multiphase systems this reference explains the basics before advancing to more practical applications the latest developments and models Updated sections include a new hydrate toolbox updated correlations and computer methods Rounding out with new case study examples this new edition gives engineers an important tool to continue to control and mitigate hydrates in a safe and effective manner Presents an updated reference with structured comparisons on hydrate calculation methods that are supported by practical case studies and a current list of inhibitor patents Provides a comprehensive understanding of new hydrate management

strategies particularly for multiphase pipeline operations Covers future challenges such as carbon sequestration with simultaneous production of methane from hydrates      Surface Production Operations: Volume III: Facility Piping and Pipeline Systems Maurice Stewart,2015-10-15 Surface Production Operations Facility Piping and Pipeline Systems Volume III is a hands on manual for applying mechanical and physical principles to all phases of facility piping and pipeline system design construction and operation For over twenty years this now classic series has taken the guesswork out of the design selection specification installation operation testing and trouble shooting of surface production equipment The third volume presents readers with a hands on manual for applying mechanical and physical principles to all phases of facility piping and pipeline system design construction and operation Packed with charts tables and diagrams this authoritative book provides practicing engineer and senior field personnel with a quick but rigorous exposition of piping and pipeline theory fundamentals and application Included is expert advice for determining phase states and their impact on the operating conditions of facility piping and pipeline systems determining pressure drop and wall thickness and optimizing line size for gas liquid and two phase lines Also included are a guide to applying international design codes and standards and guidance on how to select the appropriate ANSI API pressure temperature ratings for pipe flanges valves and fittings Covers new and existing piping systems including concepts for expansion supports manifolds pigging and insulation requirements Presents design principles for a pipeline pigging system Teaches how to detect monitor and control pipeline corrosion Reviews onshore and offshore safety and environmental practices Discusses how to evaluate mechanical integrity      Surface Production Operations: Volume IV: Pumps and Compressors Maurice Stewart,2018-11-27 For over thirty years the Surface Production Operations Series has taken the guess work out of the design selection installation operation testing and troubleshooting of surface production equipment The fourth volume in this series Pumps and Compressors is directed to both entry level personnel and practicing professionals looking for an up to date reference book on managing evaluating sizing selecting installing operating and maintaining pump and compressor systems Packed with examples drawn from years of design and field experience this reference features many charts tables equations diagrams and photographs to illustrate the basic applications including pump hydraulics centrifugal and reciprocating compressor applications compressor performance maps pump performance curves pump and compressor testing and installation and many more critical topics Packed with practical solutions Surface Production Operations Pumps and Compressors delivers an essential design and specification reference for today s engineers Covers application and performance considerations for all types of pumps and compressors Delivers hands on manual for applying mechanical and physical principles to select and design pump and compressor systems supported by many tables and diagrams Gives expert advice on how to apply design codes and standards such as API 610 API 674 ANSI B78 1 API 617 API 11P API RP 14C and the Hydraulic Institute      **Natural Gas Hydrates** Mr. Rohit Manglik,2024-01-28 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with

high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

*Rules of Thumb for Chemical Engineers* Stephen Hall,2017-10-30 Rules of Thumb for Chemical Engineers Sixth Edition is the most complete guide for chemical and process engineers who need reliable and authoritative solutions to on the job problems The text is comprehensively revised and updated with new data and formulas The book helps solve process design problems quickly accurately and safely with hundreds of common sense techniques shortcuts and calculations Its concise sections detail the steps needed to answer critical design questions and challenges The book discusses physical properties for proprietary materials pharmaceutical and biopharmaceutical sector heuristics process design closed loop heat transfer systems heat exchangers packed columns and structured packings This book will help you save time you no longer have to spend on theory or derivations improve accuracy by exploiting well tested and accepted methods culled from industry experts and save money by reducing reliance on consultants The book brings together solutions information and work arounds from engineers in the process industry Includes new chapters on biotechnology and filtration Incorporates additional tables with typical values and new calculations Features supporting data for selecting and specifying heat transfer equipment

**Practical Onshore Gas Field Engineering** David Simpson,2017-07-10 Practical Onshore Gas Field Engineering delivers the necessary framework to help engineers understand the needs of the reservoir including sections on early transmission and during the life of the well Written from a reservoir perspective this reference includes methods and equipment from gas reservoirs covering the gathering stage at the gas facility for transportation and processing Loaded with real world case studies and examples the book offers a variety of different types of gas fields that demonstrate how surface systems can work through each scenario Users will gain an increased understanding of today s gas system aspects along with tactics on how to optimize bottom line revenue As reservoir and production engineers face many challenges in getting gas from the reservoir to the final sales point especially as a result of the shale boom a new demand for more facility engineers now exists in the market This book addresses new challenges in the market and brings new tactics to the forefront Presents the full lifecycle of the gas surface facility from reservoir to gathering and transmission Helps users gain experience through case studies that explain successes and failures on a variety of gas fields including unconventional and shale Teaches how the surface gas facility system and equipment work individually and as an integrated system

**Process Engineering and Design Using Visual Basic** Arun Datta,2007-10-08 Software tools are a great aid to process engineers but too much dependence on such tools can often lead to inappropriate and suboptimal designs Reliance on software is also a hindrance without a firm understanding of the principles underlying its operation since users are still responsible for devising the design In Process Engineering *Hydrocarbon Processing* ,1981-04 *Fluid Phase Behavior for Conventional and Unconventional Oil and Gas Reservoirs* Alireza Bahadori,2016-11-24 Fluid Phase Behavior for Conventional and

Unconventional Oil and Gas Reservoirs delivers information on the role of PVT pressure volume temperature tests data in various aspects in particular reserve estimation reservoir modeling flow assurance and enhanced oil recovery for both conventional and unconventional reservoirs This must have reference also prepares engineers on the importance of PVT tests how to evaluate the data develop an effective management plan for flow assurance and gain perspective of flow characterization with a particular focus on shale oil shale gas gas hydrates and tight oil making This book is a critical resource for today s reservoir engineer helping them effectively manage and maximize a company s oil and gas reservoir assets Provides tactics on reservoir phase behavior and dynamics with new information on shale oil and gas hydrates Helps readers Improve on the effect of salt concentration and application to CO<sub>2</sub> Acid Gas Disposal with content on water hydrocarbon systems Provides practical experience with PVT and tuning of EOS with additional online excel spreadsheet examples

**Corrosion Control in the Oil and Gas Industry** Sankara Papavinasam,2013-10-15 The effect of corrosion in the oil industry leads to the failure of parts This failure results in shutting down the plant to clean the facility The annual cost of corrosion to the oil and gas industry in the United States alone is estimated at 27 billion According to NACE International leading some to estimate the global annual cost to the oil and gas industry as exceeding 60 billion In addition corrosion commonly causes serious environmental problems such as spills and releases An essential resource for all those who are involved in the corrosion management of oil and gas infrastructure Corrosion Control in the Oil and Gas Industry provides engineers and designers with the tools and methods to design and implement comprehensive corrosion management programs for oil and gas infrastructures The book addresses all segments of the industry including production transmission storage refining and distribution Selects cost effective methods to control corrosion Quantitatively measures and estimates corrosion rates Treats oil and gas infrastructures as systems in order to avoid the impacts that changes to one segment if a corrosion management program may have on others Provides a gateway to more than 1 000 industry best practices and international standards

**Proceedings, Annual Convention** Gas Processors Association,1998 **Oil & Gas Journal** ,1993 *Process Engineering and Design Using Visual Basic®*, Second Edition Arun Datta,2013-09-20 Software tools are a great aid to process engineers but too much dependence on such tools can often lead to inappropriate and suboptimal designs Reliance on software is also a hindrance without a firm understanding of the principles underlying its operation since users are still responsible for devising the design In Process Engineering and Design Using Visual Basic Arun K Datta provides a unique and versatile suite of programs along with simultaneous development of the underlying concepts principles and mathematics Each chapter details the theory and techniques that provide the basis for design and engineering software and then showcases the development and utility of programs developed using the material outlined in the chapter This all inclusive guide works systematically from basic mathematics to fluid mechanics separators overpressure protection and glycol dehydration providing basic design guidelines based on international codes Worked examples demonstrate the utility

of each program while the author also explains problems and limitations associated with the simulations After reading this book you will be able to immediately put these programs into action and have total confidence in the result regardless of your level of experience Companion Visual Basic and Excel files are available for download on under the Downloads Updates tab on this web page [Upgrading Oilsands Bitumen and Heavy Oil](#) Murray R. Gray,2015-04-17 The emphasis throughout is to link the fundamentals of the molecules through to the economic drivers for the industry because this combination determines the technology used for processing From the Introduction The high demand for quality petroleum products necessitates ongoing innovation in the science and engineering underlying oilsands extraction and upgrading Beginning with a thorough grounding in the composition fluid properties reaction behaviour and economics of bitumen and heavy oil Murray Gray then delves into current processing technologies particularly those used at full commercial scale The tables of data on composition yield and behaviour of oilsands bitumen and heavy oil fractions are extensive Though the focus is on bitumen from Alberta s oilsands the largest resource in the world the science applies to upgrading of heavy oil and petroleum residue feeds worldwide Upgrading Oilsands Bitumen and Heavy Oil lays out the current best practice for engineers and scientists in the oilsands and refining industries government personnel academics and students **Chemical Engineering Process**

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**Processing of Petroleum: Crude oil** Francis S. Manning,Richard E. Thompson (Ph.D.),1995 Covers process descriptions design method operating procedures and troubleshooting in great detail This text is the definitive source on its topic and contains numerous diagrams and appendices as well as case histories and review questions with numerical problems

[Fossil Energy Update](#) ,1984 [Gas World](#) ,1980 **Rules of Thumb for Chemical Engineers** Stephen M Hall,2012-07-27 Rules of Thumb for Chemical Engineers Fifth Edition provides solutions common sense techniques shortcuts and calculations to help chemical and process engineers deal with practical on the job problems It discusses physical properties for proprietary materials pharmaceutical and biopharmaceutical sector heuristics and process design along with

closed loop heat transfer systems heat exchangers packed columns and structured packings Organized into 27 chapters the book begins with an overview of formulae and data for sizing piping systems for incompressible and compressible flow It then moves to a discussion of design recommendations for heat exchangers practical equations for solving fractionation problems along with design of reactive absorption processes It also considers different types of pumps and presents narrative as well as tabular comparisons and application notes for various types of fans blowers and compressors The book also walks the reader through the general rules of thumb for vessels how cooling towers are sized based on parameters such as return temperature and supply temperature and specifications of refrigeration systems Other chapters focus on pneumatic conveying blending and agitation energy conservation and process modeling Online calculation tools Excel workbooks guidelines for hazardous materials and processes and a searchable Rules of Thumb library are included Chemical engineers faced with fluid flow problems will find this book extremely useful Rules of Thumb for Chemical Engineers brings together solutions information and work arounds that engineers in the process industry need to get their job done New material in the Fifth Edition includes physical properties for proprietary materials six new chapters including pharmaceutical biopharmaceutical sector heuristics process design with simulation software and guidelines for hazardous materials and processes Now includes SI units throughout alongside imperial and now accompanied by online calculation tools and a searchable Rules of Thumb library



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letter for winning an award for a battle or competition example of a great email to the contest winner subject pipe congrats  
you ve won the sweepstakes from wishpond emailing message