

GAS XLNC™

Gas Analysis Software Excellence

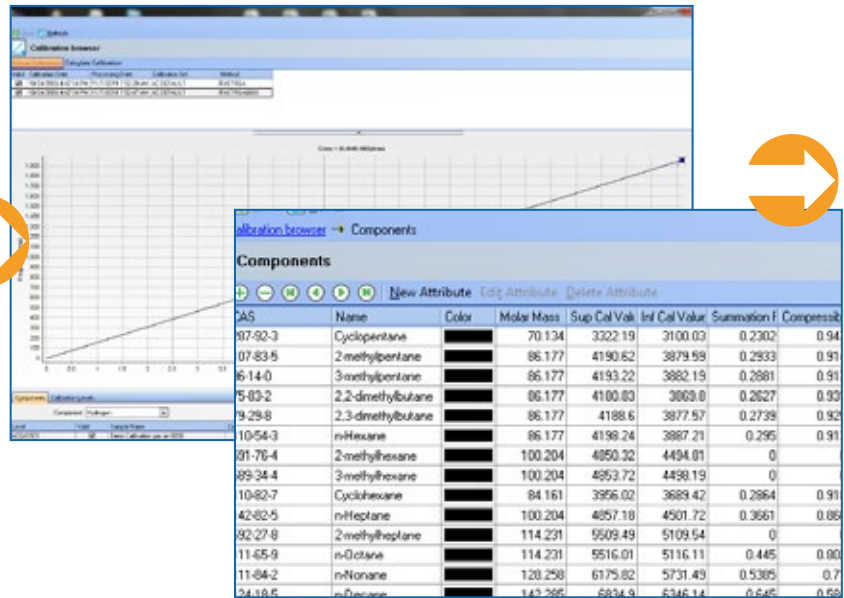
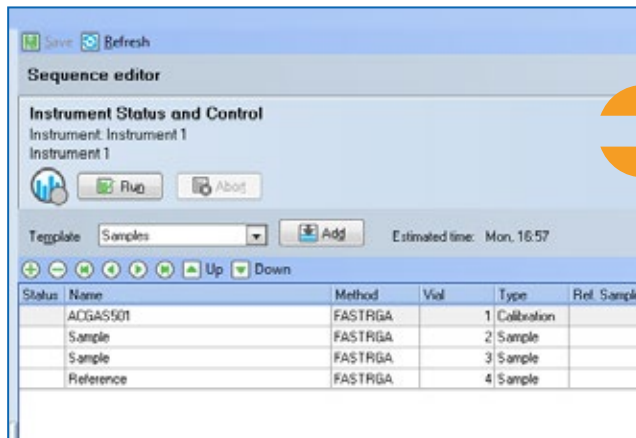


GAS XLNC™ SOFTWARE

Easy to Use Software Designed to Simplify and Standardize Gas Analysis

-  Includes Extensive Range of Report Options and Calculations
-  Users can add and customize Calculations to their Specific Needs
-  High Level of Automation contributes to Optimized Analysis Accuracy and Precision
-  In Compliance with Various Refinery and Natural Gas Standard Test Methods

WORKFLOW



INSTRUMENT STATUS AND CONTROL

- Instrument status, creates sequences, and calculates end time for sequence
- Templates for samples/calibrations, LIMS ID

CALIBRATION

- Setup multiple calibration sets
- Add sample uncertainties, track expiration dates

COMPONENTS FLEXIBILITY

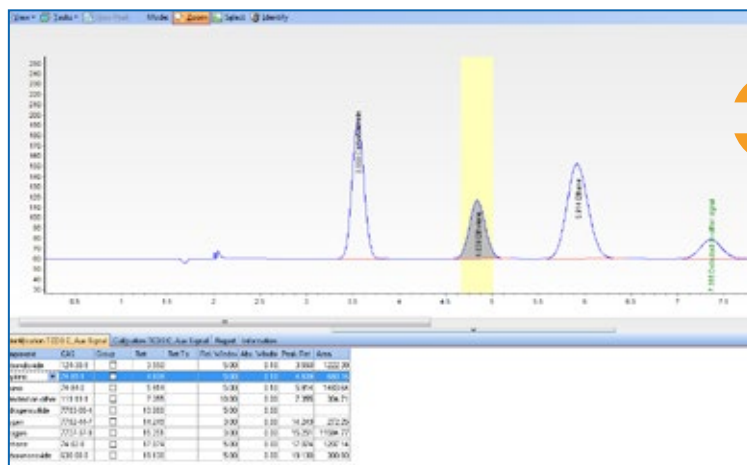
- Add or edit physical properties for each component needed

ADVANCED OPTIONS

- Calculation for oxygen correction (ISO 6974-3)
- Bridge calculation across system channels
- Advanced Peak Identification for Individual peaks or peak Groups
- Unknowns handling
- Uncertainty Calculations
- Error propagation calculation (ISO 6974-2)

STANDARD TEST METHOD

- ISO 6974, ISO 6976, ISO 8973
- EN 15984 / DIN 5166
- EN 589
- ASTM D3588, ASTM D2598
- GPA 2172, GPA 2261, GPA 2286



Sample Name		Injection Date		Calculation Date	
Demo Calibration on 1990		10/29/2007 11:28:02 AM		11/19/2002 2:25:27 PM	
Application	Instrument	Method	Operator	Reviewer	Type
FAST RGA Instrument 1	FAST RGA	admin	admin	admin	Collection 1
Calculated Properties					
Ideal Density at 15 °C		1.3834	kg/m ³		
Molar Mass		32.71	g/mol		
Real Density at 15 °C		1.3002	kg/m ³		
Real Wobbe Index 15		40.29	MJ/m ³		
Superior Molar Calorific Value 15		1809.82	kJ/mol		
Component Name	Time [min]	Detector Code	Area	Uncorr Mol%	Mol%
Carbonmonoxide	10.1101	TCD C, Aus	3.0053E-02	1.000	1.000
Methane	17.0143	TCD C, Aus	1.2571E-01	1.000	5.000
Unknown	15.6770	FID A, Front	3.0518E-01	6.006	6.018
Nitrogen	15.2396	TCD C, Aus	1.1359E-01	10.000	10.000
Oxygen	14.2495	TCD C, Aus	2.7225E-02	1.000	1.000
n-Butane	13.9757	FID A, Front	8.4545E-01	1.000	1.000
Isopentane	11.4069	FID A, Front	8.5773E-01	1.000	1.000
1,3-Butadiene	10.0905	FID A, Front	2.0036E-01	3.000	3.000
Gas-2-Butene	9.1192	FID A, Front	7.0413E-01	0.999	0.999
Trans-2-Butene	8.5643	FID A, Front	2.0099E-01	1.000	1.000
1,2-Dibutene	7.7496	FID A, Front	6.8797E-01	1.000	1.000
1-Butene	7.5775	FID A, Front	1.3447E-01	2.000	2.000
n-Butane	6.2805	FID A, Front	2.7102E-01	4.000	4.000
Butane	5.8134	TCD C, Aus	1.4836E-01	1.000	1.000

ANALYSIS

Chromatogram View:

- Zoom/select
- Identify modes allow easy sample evaluation

REPORTING

- Print flexible reports
- Traceable, according to method or customized to need
- Export to file, LIMS

RELIABLE DATAMANAGEMENT

GASXLNC™ keeps track of all calibrations performed. This traceability allows for any result to be reproduced or recalculated with revised calibration data. Sample analysis results are maintained similarly.

Calibration can be performed in Single point, multilevel and bracketing mode, such as required in ISO6974-2. The calibration browser validates the calibration analysis and can be used to view analyzed calibration sets. The screen displays calibration plot and the calibration analyses results used, allowing calibration results to be approved or removed. Approved results are blocked from further change. The Trend Analysis function logs calibration/performance data over time, providing tools to the chemist for complying with any QC program.



SPECIFICATIONS

GAS CALCULATIONS OVERVIEW		HiSpeed RGA	Fast RGA	ISO 6974	GPA 2261	GPA 2286	Unit	Temperature
Standard methods and properties								
ISO 6976								
Compressibility (dry)		✓	✓	✓		✓	g/mol	15 °C
Molar Mass		✓	✓	✓	✓	✓	KJ/mol	15 °C
Inferior/Superior Cal Value Mol		✓	✓	✓			MJ/kg	15 °C
Inferior/Superior Cal Value Mass		✓	✓	✓			MJ/m3	15 °C
Inferior/Superior Cal Value Vol (Ideal/Real)		✓	✓	✓				15 °C
Relative Density dry (Ideal/Real)		✓	✓	✓				15 °C
Density (Ideal/Real)		✓	✓	✓			kg/m3	15 °C
Wobbe Index (Ideal/Real)		✓	✓	✓			MJ/m3	15 °C
EN 15984 / DIN 51666								
EN 15984 / DIN 51666 Carbon Content		✓	✓	✓	✓	✓	g/100 g	
EN 15984 / DIN 51666 Heating value Mol		✓	✓	✓	✓	✓	KJ/mol	
EN 15984 / DIN 51666 Heating value Mass		✓	✓	✓	✓	✓	KJ/100g	
GPA 2172								
GPM					✓	✓	Gal/1000 ft3	60 °F
Compressibility (dry/sat)					✓	✓		60 °F
Gross Heating Value (dry/sat gas, dry air)					✓	✓	Btu/ft3	60 °F
Real Gross Heating Value (dry/sat gas, dry air)					✓	✓	Btu/ft3	60 °F
Nett Heating Value (dry/sat gas, dry air)					✓	✓	Btu/ft3	60 °F
Real Nett Heating Value (dry/sat gas, dry air)					✓	✓	Btu/ft3	60 °F
Relative Density dry/sat gas (Ideal/Real)					✓	✓		60 °F
ASTM D 2598								
Relative density liquid					✓	✓	kg/m3	60 °F
Vapor Pressure					✓	✓	psi	100 °F
MON					✓	✓		
EN 589								
MON		✓	✓	✓	✓	✓		
Vapor Pressure -10°/-5°/0°/10°/20°/40°		✓	✓	✓	✓	✓	kPa	
Density acc ISO 8973		✓	✓	✓	✓	✓	kg/m3	15 °C
ISO 8973Me								
Vapor Pressure 37.8°/40°/50°/70°		✓	✓	✓	✓	✓	kPa	37.8 °C
Density		✓	✓	✓	✓	✓	kg/m3	15 °C
Miscellaneous								
Oxygen correction		✓	✓	✓	✓	✓		
NGL Density		✓	✓	✓	✓	✓	kg/m3	15 °C
CO2 emission factor		✓	✓	✓	✓	✓		
Viscosity		✓	✓	✓	✓	✓		15 °C
Schilling density		✓	✓	✓	✓	✓	kg/m3	15 °C
Superior calorific value		✓	✓	✓	✓	✓	BTU/kg	

Continuing research and development may result in specifications or appearance changes at any time

ABOUT PAC

PAC develops advanced instrumentation for lab and process applications based on strong **Analytical Expertise** that ensures **Optimal Performance** for our clients. Our analyzers help our clients meet complex industry challenges by providing a low cost of ownership, safe operation, high performance with fast, accurate, and actionable results, high uptime through reliable instrumentation, and compliance with standard methods.

HEADQUARTERS

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