





**GAS** XLNC™  
Gas Analysis Software Excellence

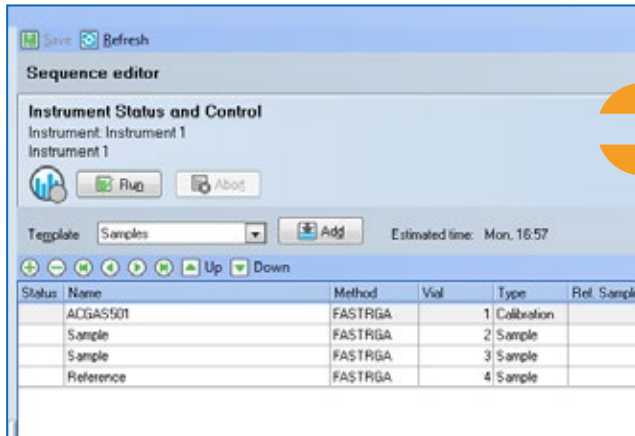


# GAS XLNC™ SOFTWARE

Easy to Use Software Designed to Simplify and Standardize Gas Analysis

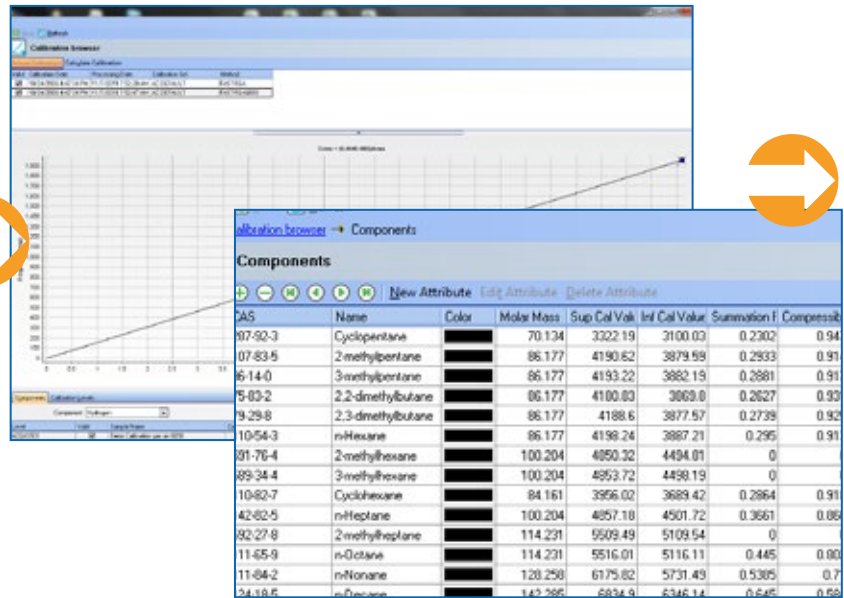
-  Includes Extensive Range of Report Options and Calculations
-  Users can add and customize Calculations to their Specific Needs
-  High Level of Automation contributes to Optimized Analysis Accuracy and Precision
-  In Compliance with Various Refinery and Natural Gas Standard Test Methods

## 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

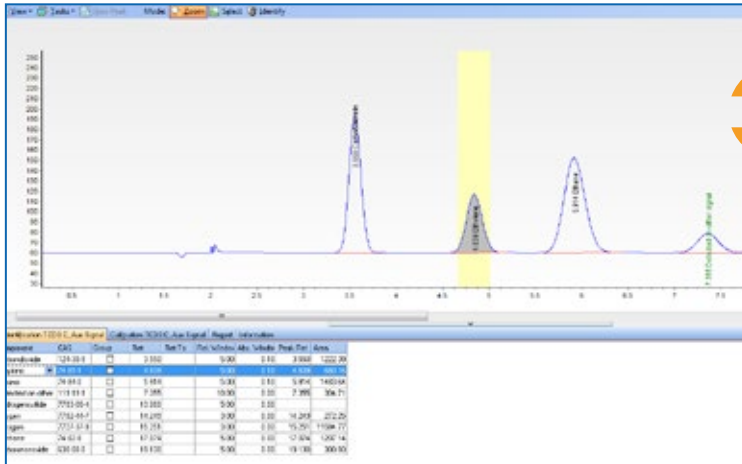
- Add or edit physical properties for each component needed

## 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 en 1990		10/29/2007 11:10:01 AM		11/19/2002 2:25:21 PM		
Application	Instrument	Method	Operator	Reviewer	Type	LIMS ID
FAST RGA	Instrument 1	FastRGA	administrate	admin	Calibration 1	
Calculated Properties						
Moel Density at 15 °C		1.3834	kg/m3			
Moleu Mass		32.71	g/mol			
Real Density at 15 °C		1.3002	kg/m3			
Real Wobbe Index 15		40.28	MF/m3			
Superior Molar Caloric Value 15		1009.82	kJ/mol			
Component Name	Time [min]	Detector Code	Area	Unnorm Mol%	Mol%	Mass%
Carbonmonoxide	10.1701	TCD1 C, Aux	2.0053E-02	1.000	1.000	0.840
Methane	17.0743	TCD1 C, Aux	1.2577E-01	5.000	5.000	2.404
Unknown	15.6770	FID1 A, Front	3.0518E-01	6.006	6.006	6.018
Nitrogen	15.2356	TCD1 C, Aux	1.1350E-04	14.000	14.007	31.904
Oxygen	14.2485	TCD1 C, Aux	2.7225E-02	1.000	1.000	0.559
n-Butane	13.0757	FID1 A, Front	8.6445E-01	1.000	1.000	2.542
Isopentane	11.4060	FID1 A, Front	8.5773E-01	1.000	1.000	2.542
i.i-Butadiene	10.0905	FID1 A, Front	2.0036E-04	3.000	3.000	4.804
Gas-2-Butene	9.1192	FID1 A, Front	7.0415E-01	0.999	0.990	1.602
Trans-2-Butene	8.5643	FID1 A, Front	2.0009E-04	3.000	3.000	5.042
iso-Butylene	7.7496	FID1 A, Front	6.8707E-01	1.000	1.000	1.682
i-Butane	7.5775	FID1 A, Front	1.3447E-04	7.000	7.000	3.367
n-Butane	6.2805	FID1 A, Front	2.7102E-04	4.000	4.000	6.902
Etane	5.8134	TCD1 C, Aux	1.4834E-01	1.000	1.000	3.687

## 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							
Standard methods and properties	HiSpeed RGA	Fast RGA	ISO 6974	GPA 2261	GPA 2286	Unit	Temperature
<b>ISO 6976</b>							
Compressibility (dry)	✓	✓	✓				15 °C
Molar Mass	✓	✓	✓	✓	✓	g/mol	
Inferior/Superior Cal Value Mol	✓	✓	✓			KJ/mol	15 °C
Inferior/Superior Cal Value Mass	✓	✓	✓			MJ/kg	15 °C
Inferior/Superior Cal Value Vol (Ideal/Real)	✓	✓	✓			MJ/m3	15 °C
Relative Density dry (Ideal/Real)	✓	✓	✓				15 °C
Density (Ideal/Real)	✓	✓	✓			kg/m3	15 °C
Wobbe Index (Ideal/Real)	✓	✓	✓			MJ/m3	15 °C
<b>EN 15984 / DIN 51666</b>							
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	
<b>GPA 2172</b>							
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
<b>ASTM D 2598</b>							
Relative density liquid				✓	✓	kg/m3	60 °F
Vapor Pressure				✓	✓	psi	100 °F
MON				✓	✓		
<b>EN 589</b>							
MON	✓	✓	✓	✓	✓		
Vapor Pressure -10° /-5° /0° /10° /20° /40°	✓	✓	✓	✓	✓	kPa	
Density acc ISO 8973	✓	✓	✓	✓	✓	kg/m3	15 °C
<b>ISO 8973Me</b>							
Vapor Pressure 37.8° /40° /50° /70°	✓	✓	✓	✓	✓	kPa	37.8 °C
Density	✓	✓	✓	✓	✓	kg/m3	15 °C
<b>Miscellaneous</b>							
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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