GC Reader

Gas Chromatography Data Processing Tool

by
KYCIS Inc.

GC Reader *is compiled* **Excel macro-based** *application for PVT laboratories and reservoir engineers — reading Agilent ChemStation GC files and converting them into* ***gas and liquid compositions (wt% and mol%)*** *for EOS modeling and reservoir simulation, with* **GOR-based wellstream recombination in v2.0**,.

TECHNICAL SPECS

Format	.exe (Excel Based)
Input	Agilent ChemStation CSV
Recombination	GOR-based (m3/m3)
OS	Windows + Excel
Comp Library	77+ compounds
Density Data	g/cm3 per compound
Dependencies	None (pure VBA)

WORKBOOK SHEETS

- **Gas GC**
  FID + TCD import & merge with Tie & Contamination settings
- **Liq GC**
  Liquid GC CSV import with Internal Standard settings
- **Recombination**
  GOR Based Recombination
- **Comp Lib**
  MW, density & aliases for non-standard component names

COMPONENT LIBRARY

Built-in library of 77+ compounds with molecular weights, densities (g/cm3), and alias name matching
— Totally customizable, for flexible cross-lab compatibility.

Alias:
Comma-separated alternate names in column D
— Resolve non-standard component names.

KEY FEATURES

Gas GC Import

Reads FID and TCD CSV files from Agilent ChemStation, merges via tie component (C1/C2) — with optional air contamination correction (N2/O2 ratio).

Liquid GC Import

Imports liquid GC CSV data with optional Internal Standard (ISD) correction for accurate liquid compositional analysis.

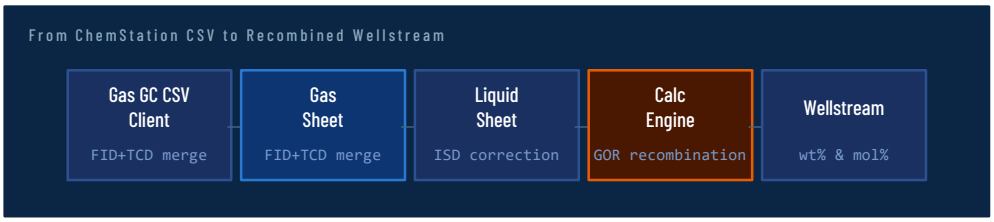
GOR Recombination

Recombines gas and liquid compositions into wellstream using Gas-Oil Ratio; auto oil density calculation via volume-additive mixing.

Validation & Matching

MW=0 check warns of unmatched components; alias-based name resolution across different lab naming conventions.

DATA PROCESSING WORKFLOW —



KEY SPECIFICATIONS

77+	GOR	1×	
Built-in compounds with MW & density Fully customizable	GOR recombination NEW in this release	Single file workbook No DLL dependencies	Composition formats wt%, mol%, raw data

TYPICAL USE CASES

PVT Laboratories

Standardize GC data processing from Agilent ChemStation into clean compositional tables — for downstream analysis, reporting, and EOS modeling input.

Reservoir Engineers

Generate wellstream compositions from separator gas and liquid analyses using GOR recombination-at standard conditions for fluid characterization workflows.

Facilities Engineers

Quick composition analysis from field GC samples with built-in component matching and air contamination correction.

SIMPLE 4-STEP WORKFLOW

01 — Import Gas
Read FID + TCD CSV
Select tie component & Contamination settings

02 — Import Liquid
Read LIQ CSV file
Configure ISD settings

03 — Recombine
Enter GOR (m3/m3)
Click
Do Recombination

04 — Get Results
Wellstream wt%, Mole%, Liquid Density

Ready to streamline GC data?

Single-file workbook — no installers or DLL dependencies. Works on any Windows PC with Microsoft Excel.

Contact KYCIS Inc.
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