

GC Reader

Gas Chromatography Data Processing Tool

by
KYCIS Inc.

GC Reader is an Excel-based GC processing tool for PVT laboratories and reservoir engineers. It delivers EOS-ready gas/liquid compositions, GOR-recombined wellstreams, and **professional reports** from ChemStation and Chromperfect ZED files. v4 adds optional Phase Envelope results via KYCIS API for post-recombination QC.

TECHNICAL SPECS

Format	.exe (Excel Based)
Input	ChemStation CSV / Chromperfect ZED
Recombination	GOR-based (m3/m3)
OS	Windows + Excel
Comp Library	77+ compounds
Density Data	g/cm3 per compound
Dependencies	KYCIS API (optional)

WORKBOOK SHEETS

- ▶ **Gas GC**
FID + TCD import & merge with Tie & Contamination settings
- ▶ **Liq GC**
Liquid GC CSV / ZED import with Internal Standard settings
- ▶ **Recombination**
GOR Based Recombination
- ▶ **Comp Lib**
MW, density & aliases; optional P-T QC via KYCIS API.

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.
— Also enables **alias-based lumping**: isomers sharing the same alias parent aggregate automatically (e.g., iC5 + nC5 + neoC5 → C5).

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).

GOR Recombination

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

Liquid GC Import

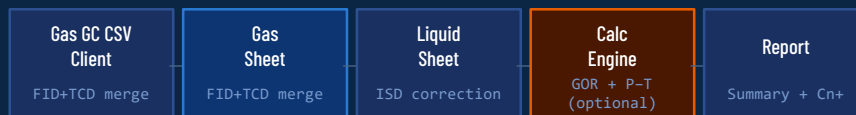
Imports liquid GC data from Agilent ChemStation CSV or Chromperfect ZED files, with optional Internal Standard (ISD) correction for accurate liquid compositional analysis.

Report Export & QC

Export Summary, Composition and Cn+ Properties reports. Optional KYCIS API Phase Envelope adds a P-T curve and key phase points for QC.

DATA PROCESSING WORKFLOW —

From GC File to Recombined Wellstream & Professional Report Export



KEY SPECIFICATIONS

77+

Built-in compounds
with MW & density
Fully customizable

GOR

GOR recombination
with optional P-T QC

3+

Professional reports
Summary, Composition &
Cn+



Composition formats
wt%, mol%, raw data

TYPICAL USE CASES

PVT Laboratories

Standardize GC data into EOS-ready compositions and professional reports for review, QC, and downstream engineering work.

Reservoir Engineers

Use GOR recombination and optional P-T envelope/key points to support fluid characterization and EOS 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 or ZED
file
Configure ISD
settings

03

Recombine

Enter GOR (m3/m3)
Click
Do Recombination

04

Export Report

Summary + Composition
Cn+ Properties
Optional P-T curve
Key phase points

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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