



ZENITH ECLIPSE JOURNAL

PROPYLENE

Composition before commitment.

A C3 feedstock purchase defined by the receiving process. Connect grade, component analysis and approved containment with the cargo actually offered.

THE COVER STORY

Compare the complete C3
composition

Set process-specific
trace-impurity limits

Confirm containment and
receiving acceptance

03

SELECT YOUR PRODUCT

Choose by end use
and product form.

04

READ THE QUALITY

Match the tests to
your requirements.

06

CONNECT THE ROUTE

Align the cargo contract
with delivery.

THE ZENITH ECLIPSE APPROACH

Start with the actual C3 stream.

Polymer, chemical and refinery grade describe different purchasing briefs. The agreed composition gives each one meaning.



BUILT AROUND YOUR END USE

Zenith Eclipse reviews propylene enquiries for qualified polymer producers, chemical manufacturers and industrial receivers. Share the process, analytical requirements and receiving location to assess source and movement together.

Propylene, also called propene, is a gas used as a feedstock for polypropylene and chemical derivatives. Polypropylene is the polymer resin, with a separate grade specification. Purchasing the monomer requires its own composition and delivery brief.

A refinery stream may contain a broader C3 mixture; chemical or polymer contracts need an approved impurity profile. Compare propylene and propane on a stated basis, then agree trace components, sampling and acceptance.

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PRODUCT PORTFOLIO

Five routes. Distinct decisions.

Three grade briefs and two movement enquiries connect the accepted material with an approved receiving chain.



01 Polymer-grade contract

Propylene for an approved polymerization process, including polypropylene production. Agree content and catalyst-sensitive impurities with the receiving unit; the commercial label does not replace the written analytical specification.

02 Chemical-grade contract

Feedstock for a named reaction, such as propylene oxide or acrylonitrile production. Confirm propylene, propane and relevant trace components against the plant requirements, with limits explicitly agreed.

03 Refinery-grade contract

A declared C3 stream with composition and variation limits explicitly accepted. Describe constituents, intended processing and quality release; the grade name does not authorize substitution into a polymer unit.

04 Pressure-tank movement

A proposed compliant pressure-rated configuration reviewed by qualified parties. Confirm equipment, route, quantity and receiving compatibility separately from product grade; an enquiry does not establish transport availability.

05 Terminal or gas-carrier parcel

Confirm source, compatible terminals and approved transport. Agree product identity, parcel size, inspection and receiving window before committing to a specialist bulk movement.

THE BUYER'S QUALITY GUIDE

Make the composition comparable.

A parcel-linked result needs a named method, reporting basis and acceptance rule for every critical component.



PARAMETER	WHAT THE BUYER SHOULD CHECK
Identity & C3 content	State propylene or propene, CAS 115-07-1, and mixture composition where applicable. Compare propylene and propane by agreed gas chromatography on an explicit mass or mole basis.
Hydrocarbon envelope	Specify relevant methane, ethane, ethylene and C4-plus components individually or in agreed groups. ASTM D2712-23 covers hydrocarbon impurities in applicable high-purity propylene; confirm its scope before use.
Reactive trace components	Agree process-critical methylacetylene and propadiene with a suitable trace-GC method and reporting limits. The receiving process determines acceptance; a propylene percentage alone leaves these results unresolved.
Water & sulfur	Set water, total sulfur or individual sulfur species requirements with separate agreed methods. State units, detection limits and sampling details; hydrocarbon analysis does not establish these non-hydrocarbon results.
Other process impurities	Identify relevant oxygen, permanent gases, carbon oxides and oxygenates. Agree component-specific methods and limits; ASTM hydrocarbon testing alone does not fully characterize the feedstock.
Sampling & release	Connect approved sampling, parcel identity and final COA to acceptance. Use qualified personnel and procedures; SDS composition ranges and hazard information do not establish contractual quality results.

A complete profile makes competing offers comparable.

SOURCE READING
[LyondellBasell / Propylene identity](#)
[ASTM / Propylene hydrocarbon method](#)
[NOVA / Chemical-grade propylene SDS](#)

TRANSFER & RECEIVING

Match containment to the site.

The proposed cargo needs approved specialist containment and a receiving facility that accepts its composition and conditions.

01

CONTAINMENT / CARGO REVIEW

Approved containment

Review the nominated pressure-rated or temperature-controlled transport configuration with qualified parties. Confirm legal suitability, inspection status and compatibility for the actual product and complete route before allocation.

02

TRANSFER / QUALIFIED SYSTEM

Closed transfer

The site's authorized technical team confirms the approved closed-transfer system, connections and pressure and temperature conditions. Trained personnel follow current SDS and site procedures for the accepted movement.

03

RECEIVER / APPROVED INTERFACE

Receiving acceptance

Confirm terminal access, receiving capacity, delivery windows and custody measurement. Define inspection and document responsibilities so the offered parcel and equipment match the facility's approved acceptance scope.

Plan packing around your product.

Propylene is extremely flammable and handled as a liquefied gas in specialist supply systems. The producer, carrier, terminal and receiver approve the equipment and operating arrangements within their respective responsibilities. Keep grade and logistics approvals connected. Confirm containment, route permission and receiving capability alongside analysis in the transaction review.

Connect the accepted cargo chain.

Composition, dangerous-goods classification and facility acceptance belong in one delivery plan.

OCEAN

ROAD

RAIL

MULTIMODAL

Send the accepted composition, quantity, loading point, destination and receiving requirements together. Coordinate source readiness, carrier and terminal review, inspection and shipment windows before committing to the movement.

01 Classify the actual stream

Responsible parties verify the shipping description against current cargo SDS and modal rules. A mixed or refinery stream can require a different entry from pure propylene; confirm classification and approvals.

02 Define the handover

State the Incoterms® 2020 rule and exact named point. Agree custody measurement, inspection, insurance and equipment responsibilities alongside mandatory dangerous-goods, carrier, terminal and site requirements.

03 Release connected records

Align parcel COA, specification and current SDS with commercial, origin and transport documents. Confirm language, issuer and timing, keeping product and equipment references connected through the accepted cargo chain.

SOURCE READING

[UNECE / Dangerous-goods framework](#)

PROCUREMENT WORKSHEET

Build your propylene RFQ.

Eight details connect the actual C3 stream, process acceptance and approved receiving arrangements.

YOUR PROPYLENE ENQUIRY / EIGHT DETAILS

- ☐ Propylene identity, intended process, commercial grade and approved source
- ☐ Propylene, propane and complete relevant hydrocarbon composition
- ☐ Process-critical water, sulfur, trace gases and oxygenate requirements
- ☐ Methods, units, basis, reporting limits and sampling procedure
- ☐ Quantity, parcel tolerance, delivery frequency and contract period
- ☐ Loading point, approved containment and qualified receiving interface
- ☐ Current cargo SDS, classification and required transport documents
- ☐ Named handover, Incoterms® rule, window and quality-acceptance terms

Still defining the specification?

Describe alternatives separately if more than one grade or source is acceptable. Changes to mixture composition or origin need explicit receiving-unit approval. Agree nomination changes, off-specification decisions and source substitution before shipment. The written offer confirms the material and movement reviewed for the transaction.

[SEND YOUR PROPYLENE REQUIREMENTS](#)



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YOUR NEXT PROPYLENE PURCHASE

Your product. Your requirements.

Let's connect the details.

Share the accepted composition, impurity limits, quantity, loading point and qualified receiving facility. Our team will review the enquiry and confirm the applicable product, document and delivery scope.

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Availability, source, analysis, certifications, equipment, pricing and delivery terms are confirmed in the written offer. Specialist route and receiving acceptance are required. Images are representative.