



ZENITH ECLIPSE JOURNAL

ETHYLENE

Feedstock. Specification. Handover.

A C2 feedstock purchase built around the downstream process. Connect composition, analytical acceptance and an approved receiving chain with the commercial scope.

THE COVER STORY

Define the full impurity profile
Separate product grade from
delivery state
Qualify the route and
receiving facility

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

Begin with the receiving unit.

The downstream process defines the feedstock brief. A grade label and headline purity leave important buying decisions open.



Zenith Eclipse reviews ethylene enquiries for qualified polymer and chemical producers. Share the receiving unit's specification, consumption and approved delivery arrangements so product and logistics requirements can be assessed together.

Ethylene, also called ethene, is a gaseous feedstock for polyethylene and other derivatives. Polyethylene is the resulting polymer resin, with its own processing specification; the two products require separate purchase briefs.

Complete polymer-grade and chemical-grade descriptions with contracted composition and impurity limits. Agree methods, reporting bases, sampling and acceptance, then review delivery state, facility compatibility and schedule before confirming an offer.

IN THIS EDITION

- 03** Grade, state and schedule
- 04** A purity number needs context
- 05** Qualify the receiving chain
- 06** A route must be accepted
- 07** Build your feedstock RFQ
- 08** Talk to our team

PRODUCT PORTFOLIO

Grade, state and schedule.

Five enquiry routes connect product quality, delivery and timing. Their requirements overlap in the contract.



01 Polymerization-feed ethylene

A feedstock brief for an approved polyethylene or copolymer unit. State the process-specific impurity envelope, reporting limits and release evidence; a polymer-grade label does not establish universal catalyst suitability.

02 Chemical-process ethylene

Specify the intended conversion, such as an ethylene oxide or ethylene dichloride process. Agree composition and individual contaminants with the receiving plant, using technical specifications and delivery analysis for acceptance.

03 Compressed-gas delivery

An approved pressure-equipment route subject to source, carrier and receiving compatibility. Define usable quantity, equipment identification and return terms separately from gas quality; package and fill conditions require confirmation.

04 Refrigerated-liquid delivery

A delivery-state enquiry for compatible cryogenic equipment and qualified terminals. Confirm the cargo specification, containment approval, route acceptance and inspection scope before agreeing a parcel or delivery commitment.

05 Scheduled term supply

Agree quality, quantity, nominations and receiving windows. Confirm source approval and interruption terms; scheduling does not establish a purity grade or guarantee allocation.

THE BUYER'S QUALITY GUIDE

A purity number needs context.

Compare results impurity by impurity, with the sample point, analytical method, units and reporting basis stated.



PARAMETER	WHAT THE BUYER SHOULD CHECK
Identity & grade	State ethylene or ethene, CAS 74-85-1, intended process and producer grade. Match delivery state and source to the contract; grade names need a complete specification.
Hydrocarbon profile	Agree ethylene, methane, ethane, acetylene and relevant C3 components. Use validated gas chromatography for the analytes and concentration range, with the molar or mass basis explicit.
Trace gases	Set oxygen, hydrogen, carbon monoxide and carbon dioxide requirements where process-critical. Agree component-specific methods and reporting limits alongside the receiving unit's complete contaminant schedule.
Moisture & sulfur	Specify water and relevant sulfur compounds with units, methods and detection limits. Distinguish total sulfur from individual species; agree oxygenates or other source-related components separately.
Method & basis	ASTM D5234-92(2025) guides analytical-method and unit alignment, without defining a universal grade. Agree component tests, calibration scope and treatment of results near contractual limits.
Sample & release	Link representative sampling to shipment acceptance using qualified personnel and approved procedures. The SDS describes hazards; the signed specification and shipment COA establish contractual quality.

Accept the impurity profile the process actually requires.

SOURCE READING
[Air Liquide / Ethylene identity](#)
[ASTM / Ethylene analytical guide](#)
[Linde / Ethylene SDS](#)

TRANSFER & RECEIVING

Qualify the receiving chain.

An accepted delivery state needs compatible approved equipment, a qualified receiving site and a documented transfer scope.

01

GAS / APPROVED SYSTEM

Pressure equipment

Competent parties review the authorized pressure system, approval, inspection status, connections and equipment identity. Agree ownership and empty-return obligations where applicable.

02

REFRIGERATED LIQUID / REVIEW

Cryogenic equipment

For refrigerated-liquid enquiries, review approved containment and terminal compatibility. Source, specialist carrier and receiving facility must accept the proposed cargo, equipment and delivery conditions before the movement is committed.

03

SITE / QUALIFIED HANDOVER

Receiving-site acceptance

Provide the facility's approved interface and acceptance requirements. Closed transfer, operating pressure and temperature conditions, trained personnel and current SDS requirements belong in the qualified technical review.

Plan packing around your product.

Ethylene is an extremely flammable gas. Handling, sampling and transfer require authorized personnel, approved procedures and equipment suitable for the contracted state, under the receiving site's technical controls. Review capacity, scheduling, custody measurement and inspection together. Product availability and a compatible terminal, carrier, receptacle and receiving installation require transaction-specific confirmation.

A route must be accepted.

Bring the gas specification, dangerous-goods review and commercial handover into the same delivery plan.

OCEAN

ROAD

RAIL

MULTIMODAL

Send both the product brief and receiving requirements with the logistics enquiry. Coordinate source readiness, carrier and terminal acceptance, inspection and delivery windows before confirming the nominated movement.

01 Confirm the actual cargo

The responsible parties verify the current shipping description, classification and modal requirements against delivery state and SDS. Gas and refrigerated-liquid entries differ; confirm applicable approvals, permits and transport documents.

02 Define the handover

State the Incoterms® 2020 rule and exact named point. Agree costs, custody measurement, inspection, insurance and equipment obligations; trade terms accompany the applicable dangerous-goods and receiving-site requirements.

03 Release connected documents

Align specification, shipment COA and current SDS with commercial, origin and transport records. Confirm language, issuer and timing, preserving product and equipment references through handover.

SOURCE READING

[UNECE / Dangerous-goods framework](#)

PROCUREMENT WORKSHEET

Build your ethylene RFQ.

Eight details connect process acceptance, analytical evidence and a feasible receiving chain.

YOUR ETHYLENE ENQUIRY / EIGHT DETAILS

- ☐ Ethylene identity, intended process, producer grade and approved source
- ☐ Ethylene content and every critical hydrocarbon or trace impurity
- ☐ Units, reporting basis, component methods and analytical reporting limits
- ☐ Sampling point, shipment COA and quality-acceptance procedure
- ☐ Total quantity, nominations, delivery frequency and contract period
- ☐ Delivery state, approved equipment and qualified receiving interface
- ☐ Current SDS, required transport approvals and destination documents
- ☐ Named handover, Incoterms® rule, delivery window and equipment terms

Still defining the specification?

Ask for separately described alternatives if several sources or delivery states are acceptable. Changes need the receiving unit's technical and commercial approval. Agree source changes, off-specification decisions and schedule revisions before nomination. The written offer confirms the reviewed product and movement.

SEND YOUR ETHYLENE REQUIREMENTS



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YOUR NEXT ETHYLENE PURCHASE

Your product. Your requirements.

Let's connect the details.

Share the process specification, impurity limits, quantity, delivery state and qualified receiving location. 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.