



by Chairman of the expert
technical commission

H. Toshboev

“O‘zbekneftgaz” AJ
“Shurtan gaz kimyo majmuasi” MCHJ
MTRB xizmati
RO‘YXATGA OLINDI
074/
20 yil

Reg. No. 074

for the needs of "Shurtan Gas Chemical Complex", LLC.

SGCC - 2021

1. GENERAL INFORMATION

1.1. Name

2,4-pentanedione (C₅H₈O₂)

1.2. Basis and purpose of purchasing of the product

Basis: Applications for the purchase of deactivator 2,4-pentandione, drawn up on the basis of the annual regulatory requirement of Shurtan Gas Chemical Complex for import chemical reagents for 2022.

The purpose of purchasing of deactivator 2,4-pentanedione is:

- to make a complex compound with spent catalysts and preparation for adsorption;
- to provide the production process with quality products in accordance with the requirements of the technological regulations of the unit.

1.3. Information about novelty (year of manufacture / production of the product)

The delivered goods must be new, manufactured no more than 2 months before the date of shipment.

2. SCOPE

2,4-pentanedione is a liquid organic compound belonging to the ketone class with the formula C₅H₈O₂. Used as a deactivator. Deactivates catalysts during production of polyethylene by forming a complex compound with catalysts and improves the adsorption of catalysts in the adsorber.

3. TERMS OF USE

In accordance with the technical documentation.

4. TECHNICAL REQUIREMENTS

4.1. Basic technical requirements

Name -	2,4-Pentadion or Acetylacetone
Molecular formula -	C ₅ H ₈ O ₂
Structure -	CH ₃ COCH ₂ COCH ₃
2,4-Pentadion -	Not less than 99% wt (weight)
2,4-Hexadione -	(max) 0.2%
Acetic acid -	(max) 0.2%
Moisture -	(max) 0.1%
Color -	Not more than 50 (Pt / Co scale)
Density -	0.972-0.978 g / cm ³
Molecular weight -	100 g / mol



4.2. Reliability requirements

The item being purchased must match the well-known number CAS# 123-54-6

4.3 Labeling requirements

The marking must be applied properly in accordance with the manufacturer's technical documentation or in accordance with the requirements of international standards.

The content of the marking must indicate:

- Name of product;
- name of the country of manufacture;
- name of the manufacturer;
- the legal address of the manufacturer or seller;
- the purpose of the product, scope of application; manufacturer and (or) seller's address;
- trade mark (trade mark) of the manufacturer (if any);
- date of manufacture (month and year);
- shelf life;
- designation of the GOST (Technical specifications) number.

4.4 Requirements for dimensions and packaging

The goods must be delivered in the containers with a volume of 200 liters in accordance with the current common known (common accepted) standard.

Other options and sizes of packaging are subject to additional agreement by the Customer, provided they are acceptable.

Packaging shall ensure the safety of the goods during transportation, handling and movement of goods to the place of their installation.

5. REQUIREMENTS AS PER RULES FOR DELIVERY AND ACCEPTANCE

5.1 Order of delivery and acceptance

The goods must be accepted after the incoming inspection and drawing up an act in accordance with the contract.

The customer accepts the goods according to the quantity, quality and completeness of the batch, and external signs of the safety of the goods in accordance with the transport and accompanying documents, quality certificates of the manufacturer.

The parties hereby agree that the visual inspection of the goods, carried out by the representative of the Customer, must be absolute and final for the parties to determine the conformity in terms of quantity, completeness and external signs of the safety of the goods during transportation.

During accepting the goods from the carrier, the Customer (consignee) is obliged to check the conformity of the goods with the information specified in the contract, specifications or additional agreements to it, as well as in the transport, accompanying documents, quality certificates of the manufacturer.



If, during acceptance of the goods after receiving it from the carrier, a discrepancy of the goods in terms of quality / quantity is revealed, the Customer (consignee) is obliged to suspend the acceptance of the goods, take measures to ensure the safety of the goods and prevent mixing with other homogeneous goods and notify the Seller about this in writing form within 5 (five) working days from the date of detection of deficiencies.

The seller is obliged to send the Customer (consignee) no later than 10 (ten) business days from the date of receipt of the notification about response about the participation of his representative in the further acceptance of the goods. The Seller's representative must come to participate in the acceptance of the goods within a reasonable time, not exceeding twenty (20) calendar days from the date of receipt of the notification.

If the Seller refuses to participate in the acceptance or failure to provide a response to the notification, or default of appearance of his representative within the period specified in the agreement, the Customer has the right to carry out further acceptance of the goods in terms of quality / quantity, with the participation of a representative of an independent expert organization with drawing up an act in accordance with the agreement.

The following information must be indicated in the act of acceptance of the goods:

- name of the Customer (consignee) of the goods;
- number and date of drawing up the act, place of acceptance of goods, beginning and finishing time of acceptance of goods;
- the surnames and initials of the persons participating in the acceptance of the goods, their positions, information about the documents confirming the powers of these persons to participate in the acceptance of the goods, their details;
- the name and address of the Seller's manufacturing-plant;
- the date and number of the notification of call of the Seller's representative;
- detected non-conformity of the goods, its nature;
- indication of the contract number and specification;
- name and labeling of goods in accordance with the shipping documents for the corresponding batch of goods;
- number of places and weight of products according to shipping documents;
- the condition of the container (packaging);
- weight of the identified shortage for each place;
- number of the shipping document and quality certificate;
- size, batch number, availability of a label;
- conclusion on the nature of the identified defects in the goods and the reason for their occurrence.

The act must be signed by all persons involved in the acceptance of the goods.

5.2 Requirements for handing over of technical and other documents to the customer during supplying of the goods.

The goods must be accompanied by the following documentation:



- certificate of conformity of the goods;
- invoice (invoice) of the Seller with a description of the goods, indicating the quantity, unit price and total amount;
- consignment note issued in the name of the consignee with indication of the departure station and the destination, the name of the Customer, the number and date of signing of the current contract;
- certificate of the country of origin of the goods with indication of the number and date of the invoice;
- packing list;
- certificate of the quality of the goods issued by the manufacturer;
- safety data sheet according to GOST-30333.

5.3 Requirements for product insurance

Not required

6. TRANSPORTATION REQUIREMENTS

The goods must be shipped in export standard packaging (serviceable, closed, sealed) of the manufacturer, ensuring its complete safety against any kind of damage during long-term storage and transportation of products, taking into account several transmissions on the way.

7. STORAGE REQUIREMENTS

According to the NTD of the manufacturer.

8. REQUIREMENTS FOR THE SCOPE AND / OR DURATION OF WARRANTIES

The goods must be produced no more than 2 months before the date of shipment, in full compliance with the description, specifications, manufacturer's specifications and / or the terms of this technical assignment, and also ensure the required quality.

The supplier is obliged to provide a document on the manufacturer's form, which specifies the terms of fulfilling the warranty.

The supplier provides a quality guarantee for the goods in accordance with the manufacturer's guarantee. The warranty period of operation must be at least 12 months from the date of putting the goods into operation or 12 months from the date of receipt of the goods at the warehouse of the Shurtan Gas Chemical Complex, LLC plant. If the Supplier delivered products that do not comply with the terms of the contract, the requirements of NTD and the quality of the products is not confirmed by the relevant quality document, the Supplier is obliged to replace it with products of proper quality that comply with the contract within 14 (fourteen) days from the receipt of the claim or within seven days from the date of the written request. Buyer shall return the money paid for low-quality products.

9. ENVIRONMENTAL AND SANITATION REQUIREMENTS

The quality of the product shall ensure the possibility of its intended use without negative consequences:

- the product must be safe during its operation, storage, and disposal;
- the product must not cause any damage to the environment.

Shall be according to the current laws and regulations of the Republic of Uzbekistan.



10. SAFETY REQUIREMENTS

The goods must meet the safety requirements established by the legislation of the Republic of Uzbekistan during storage, transportation and operation.

11. REQUIREMENTS FOR QUALITY AND CLASSIFICATION

The goods must be of high quality and meet the requirements of the intended use, having the necessary consumer properties and technical characteristics, characteristics of environmental and industrial safety. The quality of the goods must be confirmed by a quality certificate issued at the manufacturer's plant.

12. ADDITIONAL (OTHER) REQUIREMENTS

Each bidding company must take into account the inclusion of the following information in the technical proposal:

- it is necessary to provide laboratory analyzes for quality made by an independent laboratory or an accredited laboratory of the manufacturer;
- it is necessary to provide with certificates (international certificates of ISO 9001, ISO 14001, ISO 45001, manufacturer's quality certificate and / or other certificates of internationally recognized laboratories and test centers);
- it is necessary to provide a list of companies that are users of the proposed product;
- it is necessary to indicate publicly available information about the manufacturer (company website);

Experimental-industrial trials:

In the event that the proposed product of the winner of the tender has not been previously used by Shurtan Gas Chemical Complex, LLC or in case of supplying an analogue of 2,4-pentanedione, the supplier must agree on the possibility of its use with Shurtan Gas Chemical Complex, LLC in order to ensure the proper quality of the final product. At the same time, it is necessary to make a trial delivery of 2,4-pentanedione in the amount required for test production and Experimental-industrial trials on the corresponding technological units of Shurtan Gas Chemical Complex, LLC should be carried out for at least one month. Payment for a trial batch will be made upon achieving positive results of approbation and in case of receiving of product that meet the requirements. In case of a negative result, payment for the trial batch will not be carried out.

13. REQUIREMENTS FOR THE QUANTITY, PROCUREMENT, PLACE AND TIME (PERIODICITY) OF DELIVERY

The total amount of required goods is 65.66 tons.

The volume is for annual consumption.

The goods are delivered in full volume.

The delivery date is determined during signing of the contract.

The delivery date is subject to change in accordance with the actual rate of production and therefore the delivery date must be agreed with the Customer and delivered on the exact date specified.

The maximum delivery term is 45 days after the order is placed by the Customer or from the date of payment for the goods to the corresponding bank account.



Payment terms: 100% letter of credit.

Carriage delivery: DAP – railway station Kengsoy (station code - 732602), "Uzbekiston Temir Yullari", JSC.

Transport delivery: DAP - Republic of Uzbekistan, Kashkadarya region, Guzar district, Shurtan settlement, 180300

Container delivery: DAP – railway station Kengsoy (station code - 732602), "Uzbekiston Temir Yullari", JSC.

14. REQUIREMENT FOR THE FORM OF THE SUBMITTED INFORMATION

The submitted technical proposal must have:

- a copy on electronic media (CD / DVD disks or USB storage media);
- regardless of the source language, the submitted documents must be duplicated in Russian and / or English.

15. LIST OF ACCEPTED ABBREVIATIONS

No	Abbreviations	
1	TA	Technical assignment
2	NTD	Normative technical documentation
3	GOST	State standard

Developed by:

Deputy Chief of Production coordination department:

Chief of Polyethylene production shop:

Deputy Chief process engineer:

Process engineer of Polyethylene production shop:

Engineer of Inventory management service:



G. Rashidov

U. Bozorov

O. Pulatov

H. Rakhimov

U. Omonov