

# starknet\_estimateMessageFee

Returns an estimate of the L2 fee required for the network to process the specified L1 message, at the specified block.

## Parameters

- message
  - : [Required
  - ] The message to estimate, which includes the following fields:\* from\_address
    - : (string) [Required
    - ] The address of the L1 contract sending the message.
    - to\_address
      - : (string) [Required
      - ] The L2 address the message is sent to.
      - entry\_point\_selector
        - : (string) [Required
        - ] The entry point selector.
        - payload
          - : (array) [Required
          - ] The payload of the message.
  - block\_id
    - : [Required
    - ] The block parameter object containing one of the following:\* block\_hash
      - : (string) Block hash.
      - block\_number
        - : (integer) Decimal block number.
        - One of the string tagslatest
        - orpending
        - .

## Returns

A fee estimate object containing:

- gas\_consumed
  - : The Ethereum gas consumption of the transaction.
- gas\_price
  - : The gas price (in gwei) that was used in the cost estimation.
- overall\_fee
  - : The estimated fee for the transaction (in gwei), product of gas\_consumed and gas\_price
  - .

## Example

Replace YOUR-API-KEY with an API key from your [Infura dashboard](#) .

## Request

- cURL

```
curl https://starknet-mainnet.infura.io/v3/YOUR-API-KEY \ -X POST \ -H "Content-Type: application/json" \ -d '{ "jsonrpc":  
"2.0", "method": "starknet_estimateMessageFee", "params": { "message": { "from_address":  
"0xAbCdEf0123456789aBcDeF0123456789AbCdEf01", "to_address":  
"0x044e5b3f0471a26bc749ffa1d8dd8e43640e05f1b33cf05cef6adee6f5b1b4cf", "entry_point_selector": "0x00000",  
"payload": [] }, "block_id": "latest" }, "id": 0 }'
```

## Response

- JSON

```
{ "jsonrpc": "2.0", "result": { "gas_consumed": "0x41de", "gas_price": "0x67edb4f57", "overall_fee": "0x1abd7b153e472" },  
"id": 0 }
```

Last updated on May 9, 2024 [Previous starknet\\_estimateFee](#) [Next starknet\\_getBlockTransactionCount](#)