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eth_estimateGas - Optimism

post https://{network}.g.alchemy.com/v2/{apiKey} Generates and returns an estimate of how much gas is necessary to allow the transaction to complete. The transaction will not be added to the blockchain.

Note

The estimate may be significantly more than the amount of gas actually used by the transaction, for a variety of reasons including EVM mechanics and node performance. Estimates are served directly from nodes, we're not doing anything special to the value so the rest of the network is likely seeing the same.

Parameters

Object

- The transaction call object* from
- DATA
 - , 20 Bytes (optional) The address the transaction is sent from.
- to
- :
- DATA
- , 20 Bytes The address the transaction is directed to.
- gas
- :
- QUANTITY
- (optional) Integer of the gas provided for the transaction execution.
- eth_call

 consumes zero gas, but this parameter may be needed by some executions.NOTE: this parameter has a cap of550 million Gwei per request. Reach out to us atupport@alchemy.com · if you want to increase this limit. gasPrice : QUANTITY • (optional) Integer of the gasPrice • used for each paid gas.Note: most of our users (95%+) never set the gasPrice on eth call. value o : QUANTITY (optional) Integer of the value sent with this transaction data DATA • (optional) Hash of the method signature and encoded parameters. For details see Ethereum Contract ABI QUANTITY|TAG • integer block number, or the string "latest", "earliest" or "pending", see the lefault block parameter

Note

- · eth_estimateGas
- will check the sender's balance (to ensure that the sender has enough gas to complete the request). This means that even though the call doesn't consume any gas, the
- trom
- address must have enough gas to execute the transaction.
- If no
- gas
- is specified geth uses the block gas limit from the pending block as an upper bound. As a result, the returned estimate might not be enough to execute the call/transaction when the amount of actual gas needed is higher than the pending block gas limit.

Returns

QUANTITY - the amount of gas used.

Example

Request

cURL Postman curl https://opt-mainnet.g.alchemy.com/v2/your-api-key -X POST -H "Content-Type: application/json" -d '{"jsonrpc":"2.0","method":"eth_estimateGas","params":[{see above}],"id":1}' URL: https://opt-mainnet.g.alchemy.com/v2/your-api-key RequestType: POST Body:

{ "jsonrpc":"2.0", "method":"eth_estimateGas", "params":[{see above}], "id":1 } Result

JavaScript {"id" :1 ,"jsonrpc" :"2.0" ,"result" :"0x5208" // 21000 }

Path Params apiKey string required .custom-style { color: #048FF4; } For higher throughput, create your own API key Body Params id integer jsonrpc string method string params array params Transaction Object Block Number or Tag Transaction Object Block Number or Tag

Response

200

Returns the amount of gas used.

Response body object id integer jsonrpc string result string

Updated 5 months ago

eth_call - Optimism eth_accounts - Optimism Did this page help you?Yes No