

caution The public Swap API `api.1inch.io` is deprecated. To continue using the Swap API please migrate to the [1inch Developer Portal](#)

Description of query parameters

Parameter name Type Description src * string contract address of a token to sell
e.g.:0x6b175474e89094c44da98b954eedef495271d0f dst * string contract address of a token to buy
e.g.:0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48 amount * integer amount of a token to sell, set in minimal divisible
units e.g.: 1.00 DAI set as1000000000000000000

51.03 USDC set as 51030000 from * string address of a seller, make sure that this address has approved to spend src in needed amount e.g.: 0x52bc44d5378309ee2abf1539bf71de1b7d7be3b5 slippage * number limit of price slippage you are willing to accept in percentage, may be set with decimals. &slippage=0.5 means 0.5% slippage is acceptable. Low values increase chances that transaction will fail, high values increase chances of front running. Set values in the range from 0 to 50 protocols string specify liquidity protocols. If not set, all liquidity protocols will be used; you can disable any protocol by listing all protocols except those you don't need e.g.: &protocols=WETH,CURVE,BALANCER,,,,ZRX

default: all protocols can be used receiver string recipient address of a purchased token if not set, from will receive a purchased token includeTokensInfo boolean if set tottrue , response will include from token and to token info default: false includeProtocols boolean if set tottrue , response will include protocols used in the quote default: false referrer string referrer's address fee number this percentage of src token amount will be sent to referrer, the rest will be used as input for a swap min: 0; max: 3; default: 0

example to set a fee to 1.5%:&fee=1.5 gasPrice string 1inch takes in account gas expenses to determine exchange route. It is important to use the same gas price on the quote and swap methods. Gas price set in wei:12.5 GWEI set as12500000000

default: "fast" from network permit string <https://eips.ethereum.org/EIPS/eip-2612> compatibility boolean If true, the swap function will always be used. This helps when the token being traded has a tax or fee on trade or transfer default: false complexityLevel string maximum number of token-connectors to be used in a transaction. The more is used — the longer route estimation will take, the more complex route might be as a result. If not set, two token-connectors may be used min: 0; max: 3; default: 2 connectorTokens string token-connectors can be specified via this parameter. The more is set — the longer route estimation will take. If not set, default token-connectors will be used. If a token you want to exchange doesn't have a pool with one of the default token-connectors this parameter will help find the route; should be the same for a quote and swap max: 5;

e.g.:&connectorTokens=0xEeeeeEeeeEeEeeEeEeEEeeeeEEEEEEEEEEeE, 0x6b175474e89094c44da98b954eedeac495271d0f

default: list of default token-connectors allowPartialFill boolean if true, the algorithm can cancel part of the route, if the rate has become less attractive. Unswapped tokens will return to the from default: true disableEstimate boolean if true, disable most of the checks default: false gasLimit integer maximum amount of gas for a swap; should be the same for a quote and swap default: 11500000; max: 11500000 mainRouteParts integer limit maximum number of main route parts; should be the same for a quote and swap default: 20; max: 50 parts integer limit maximum number of parts each main route parts can be split into; should be the same for a quote and swap default: 20; max: 100

By default only toAmount and the tx object are returned

Parameter name	Type	Description
fromToken	string	parameters of a token to sell
toToken	string	parameters of a token to buy
amount	string	input amount
offToken	string	parameters of a token to buy in minimal divisible units
protocols	string	route of the trade
from	string	transactions will be sent from this address
to	string	transactions will be sent to our contract address
data	string	bytes of call data
value	string	amount of ETH (in wei) will be sent to the contract address
gasPrice	string	gas price in wei
gas	string	estimated amount of the gas limit, increase this value by 25%

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