

tradeByTargetAmount()

The function parameters must include the list of orders (tradeActions) to interact with.

Using the SDK is highly recommended. See [Performing Trades](#) for details.

Function tradeByTargetAmount()

This function will trade to receive the exact amount of indicated target tokens for as few source tokens as possible.

...

```
CarbonController.sol Copy function tradeByTargetAmount( Token sourceToken, Token targetToken,
TradeAction[] calldata tradeActions, uint256 deadline, uint128 maxInput
) external payable nonReentrant whenNotPaused onlyProxyDelegater returns (uint128)
```

...

Function Arguments

Name	Type	Description
sourceToken	Token	The source token address
targetToken	Token	The target token address
tradeActions	list	This is a list of TradeAction objects, each of which contain the strategyId and amount of target tokens to receive from the strategy.
deadline	uint256	Unix timestamp after which the transaction will revert
maxInput	uint128	The maximum amount of source tokens you are willing to spend (use) for the transaction to result in the requested targetToken amount and not revert

tradeAction.amount need to follow the relevant token decimal. tradeByTargetAmount, follows the targetToken decimals

Example

...

```
Copy tradeByTargetAmount( 0xC02aaA39b223FE8D0A0e5C4F27eAD9083C756Cc2, //source token
0x1F573D6Fb3F13d689FF844B4cE37794d79a7FF1C, //target token [{59,16000000000000000000},
{72,3140000000000000000}], //array of tradeActions [{strategyId, amount},{strategyId, amount}...] 1675680190, //deadline
5320000000000000000 //maxInput )
```

...

While all required data is available on chain, it is recommended to use the [Carbon DeFi SDK](#) . To trade directly with the ETH token, use the contract address: 0xEeeeeEeeeEeEeeEeEeEeeEeeeeEeeeeeeeEeE

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