Introduction

The 1inch spot price aggregator is a set of smart contracts that extract price data for tokens traded on DEXes from the blockchain. To avoid price manipulations within a transaction, the spot price aggregator should ONLY be used off-chain. DO NOT use it on-chain. For off-chain usage see<u>Examples</u> section below.

Wrappers

To handle wrapped tokens, such as wETH, cDAI, aDAI etc., the 1inch spot price aggregator uses custom wrapper smart contracts that wrap/unwrap tokens at the current wrapping exchange rate.

Connectors

If no direct liquidity pair exists between two tokens, the spot price aggregator calculates rates for those coins using another token that has pairs with both of them – a connector token.

Supported Deployments

Ethereum Mainnet

Oracle0x0AdDd25a91563696D8567Df78D5A01C9a991F9B8

Supported DEXes * Chainlink -0x8606321723D9cA7db708A8b12DAd0A8a83f2F3bD * KyberDMM -0xE2d0e58302d03F703BD3c5EC2899F4e1af65E18c * Mooniswap -0x5F6a6428756CfAF96584286Ef9f7411621196f3A * Synthetix -0xb7EF687B322910f3315F91f9F4B9b4B77219ddb4 * Uniswap -0xAdF7CC69626eB6F03F4F613832C84Cf62586A6Bb * Equalizer -0xEBA383DA9FCe0Ea0acB59A185A73D48dC089c73F * ShibaSwap -0x0fE8bD9CB73ADC66561330B648a8fC62b4F58943 * SushiSwap -0x2A45d538f460DDBEeA3a899b0674dA3DFE318faa * UniswapV2 -0xA21E47477DE9BbcDC962ee18a5E7D339c5a16D28 * UniswapV3 -0xE85B42805e046D1933EB8e1C543C4da4E5e8fFa3 * Curve -0x7eE5d607597598e9d642b264b7Ac2703b92Acf9B * Pancake 3 -0xB4039b37d09772801a51764537c167445f52F48b * Dodo -0x0A7c4d89e1629f189Eb12dd716B178d1b90D9f66 * DodoV2 -0x03aA019F3B78110e030c34e9fA98047A1f62859A Supported wrappers * WETH -0x2b36053EB3BC1D68f51Bb7916D1503D1556f3ffc * AaveV1 -0x8C00a411Fe8983525F82CFCe34fe4B092d9E525d * AaveV2 -0x06cC74503B6d1eB6D4d6Bc402f48fC07b804105f * AaveV3 -0x0c8fc7a71C28c768FDC1f7d75835229beBEB1573 * Compound $- \underline{0x7C327E1Ee66d4cF7F4053387241351FDc95A0c04} * Compound V3 \\$ -0xd24222B521337DABE4f1e56d351818fbf26905eD * YVault -0x9FF110f132d988bfa9bC6a21851Da1aF3aC6EaF8 * stETH -0x26daCf7E879b18FE658326ddD3ABC0D6910B3E9F * wstETH -0x37eB78fE793E89353e46AEe73E299985C3B8d334 * sDAI -0xF07317368A4B061dadB8C8239cbfCfd4808B76ce * CHAI -0x6fE4926a0fCc78ab764b39f2738e1Dea145d7AC0 Supported connectors * ETH USDC -0xA0b86991c6218b36c1d19D4a2e9Eb0cE3606eB48 * DAI -0x6B175474E89094C44Da98b954EedeAC495271d0F WBTC -0x2260FAC5E5542a773Aa44fBCfeDf7C193bc2C599 * 3CRV -0x6c3F90f043a72FA612cbac8115EE7e52BDe6E490 Prev oracle versions (legacy) * May-28-2021 -0x07D91f5fb9Bf7798734C3f606dB065549F6893bb * Apr-07-2023 -0x3E1Fe1Bd5a5560972bFa2D393b9aC18aF279fF56 *

Binance Smart Chain

Oracle0x0AdDd25a91563696D8567Df78D5A01C9a991F9B8

Jul-13-2023 -0x52cbE0f49CcdD4Dc6E9C13BAb024EABD2842045B

Supported DEXes * ApeSwap -0xeD55d76Bb48E042a177d1E21AffBe1B72d0c7dB0 * BakerySwap -0x82b6B75F5fEabbfD370D45daCEFae3D5c06099DA * BSCswap -0xD4eFb5998DFBDFB791182fb610D0061136E9DB50 * Demax -0x7bdc6954e1c7869B4147A320d589689F628E9921 * KyberDMM -0xE2d0e58302d03F703BD3c5EC2899F4e1af65E18c * Mooniswap -0x5F6a6428756CfAF96584286Ef9f7411621196f3A * Pancake 1 -0x1b947aF8b3dd6aa96F8726cd92c894D0Ba6367a3 * Pancake 2 -0xB9fa95a38D50c5Bad1eA2b4E85e106Fe886cCb3A * Pancake 3 -0xB4039b37d09772801a51764537c167445f52F48b * Thugswap -0x7bBc0156c31A19097eEd6B636AA2F4AB8A31BFD9 * UniswapV2 -0x4C5B9573dE7660c097F1a21050038378CD691066 Supported wrappers * Venus -0x11DEE30E710B8d4a8630392781Cc3c0046365d4c * WBNB -0x54431918cec22932fcf97e54769f4e00f646690f

- -0xbb4CdB9CBd36B01bD1cBaEBF2De08d9173bc095c * DAI -0x1AF3F329e8BE154074D8769D1FFa4eE058B1DBc3 *
- ETH -0x2170Ed0880ac9A755fd29B2688956BD959F933F8 * USDC -0x8AC76a51cc950d9822D68b83fE1Ad97B32Cd580d * BSC-USD -0x55d398326f99059fF775485246999027B3197955 * BUSD

- -0x27950ecAeBB4462e18e8041AAF6Ea13cA47Af001 * Jul-13-2023
- -0x52cbE0f49CcdD4Dc6E9C13BAb024EABD2842045B

Polygon (Matic)

Oracle0x0AdDd25a91563696D8567Df78D5A01C9a991F9B8

Supported DEXes * QuickSwap -0xeec05e0D8F7D3f56CECE2026Feaf41b09B423790 * ComethSwap

- -0x11BFd590f592457b65Eb85327F5938141f61878a * DFYN -0xeD55d76Bb48E042a177d1E21AffBe1B72d0c7dB0 *
- SushiSwap -0x2A45d538f460DDBEeA3a899b0674dA3DFE318faa * UniswapV2
- -0x4C5B9573dE7660c097F1a21050038378CD691066 * UniswapV3
- -0xE85B42805e046D1933EB8e1C543C4da4E5e8fFa3 Supported wrappers * WMATIC
- -0xA0446D8804611944F1B527eCD37d7dcbE442caba * AaveV2 -0x138CE40d675F9a23E4D6127A8600308Cf7A93381 * AaveV3 -0x0c8fc7a71C28c768FDC1f7d75835229beBEB1573 * CompoundV3
- -0xAc63D130525c251EbB24E010c2959a98c80B993a Supported connectors * MATIC
- -0x0d500B1d8E8eF31E21C99d1Db9A6444d3ADf1270 * USDC -0x2791Bca1f2de4661ED88A30C99A7a9449Aa84174 *
- WETH -0x7ceB23fD6bC0adD59E62ac25578270cFf1b9f619 Prev oracle versions (legacy) * May-28-2021
- -0x7F069df72b7A39bCE9806e3AfaF579E54D8CF2b9 * Apr-05-2023
- -0xf023D71EfB08339EA28F0C186AE130c74D44C58c * Jul-13-2023
- -0x52cbE0f49CcdD4Dc6E9C13BAb024EABD2842045B

Optimism

Oracle0x0AdDd25a91563696D8567Df78D5A01C9a991F9B8

Supported DEXes * UniswapV2 -0x4C5B9573dE7660c097F1a21050038378CD691066 * UniswapV3

- -0xE85B42805e046D1933EB8e1C543C4da4E5e8fFa3 * Velodrome Finance
- -0x52a8193C7f42b75F27e4ce96f8ddBA7e854453Ef * VelodromeV2 -0x41674e58F339fE1caB03CA8DF095D46B998E6125
- * Synthetix -0xb7EF687B322910f3315F91f9F4B9b4B77219ddb4 Supported wrappers * AaveV3

- oracle versions (legacy) * May-28-2021 -<u>0x11DEE30E710B8d4a8630392781Cc3c0046365d4c</u> * Apr-06-2023 -<u>0x59Bc892E1832aE86C268fC21a91fE940830a52b0</u> * Jul-13-2023
- -0x52cbE0f49CcdD4Dc6E9C13BAb024EABD2842045B

Arbitrum

Oracle0x0AdDd25a91563696D8567Df78D5A01C9a991F9B8

Supported DEXes * DXswap -0xc197Ab9d47206dAf739a47AC75D0833fD2b0f87F * SushiSwap

- -0x2A45d538f460DDBEeA3a899b0674dA3DFE318faa * UniswapV2 -0x4C5B9573dE7660c097F1a21050038378CD691066 * UniswapV3 -0xE85B42805e046D1933EB8e1C543C4da4E5e8fFa3 Supported wrappers * WETH
- -0x0F85A912448279111694F4Ba4F85dC641c54b594 * AaveV3 -0x0c8fc7a71C28c768FDC1f7d75835229beBEB1573 * CompoundV3 -0x04098C93b15E5Cbb5A49651f20218C85F202Cd27 Supported connectors * NONE

- * Jul-13-2023 -0x52cbE0f49CcdD4Dc6E9C13BAb024EABD2842045B

Avax

xDai

Oracle0x0AdDd25a91563696D8567Df78D5A01C9a991F9B8

-0x52cbE0f49CcdD4Dc6E9C13BAb024EABD2842045B

Fantom

Oracle0x0AdDd25a91563696D8567Df78D5A01C9a991F9B8

Aurora

Oracle0x0AdDd25a91563696D8567Df78D5A01C9a991F9B8

Klaytn

Oracle0x0AdDd25a91563696D8567Df78D5A01C9a991F9B8

Supported DEXes * KlaySwap -0xf023D71EfB08339EA28F0C186AE130c74D44C58c * ClaimSwap

- -0xFdCB8fA524f84081988e6065Fc8EF060f2CF0C27 Supported wrappers * WKLAY
- -0xD9Cc0A957cAC93135596f98c20Fbaca8Bf515909 * Klap -0x4dFa40FDAA7694676899f8887A45603922609AF4

- -0x89314d57A8A4E636A00922ac289BC3a9a69C4361 * Jul-13-2023
- -0x52cbE0f49CcdD4Dc6E9C13BAb024EABD2842045B

zkSync

Oracle0xc9bB6e4FF7dEEa48e045CEd9C0ce016c7CFbD500

Supported DEXes * MuteSwitch -0xE0C1daF04Ca9f65c45bF67E87F6135fcf51ba5D1 * Syncswap

- -0x226b15358e2DF022ada190fc3Ac4a32ea26C18c8 Supported wrappers * WETH
- -0x2D9E7B597b53D98C60A0904DEE7d838042Db9A25 Supported connectors * ETH
- -0x5AEa5775959fBC2557Cc8789bC1bf90A239D9a91 * USDC -0x3355df6D4c9C3035724Fd0e3914dE96A5a83aaf4 Prevoracle versions (legacy) * Mar-28-2023 -0x1ec0a5F6dc07E93491426d5aAAc3E2BC505Ef41C * Jun-05-2023
- -0xEE053a8333B7F804bE050B3D73289C6dbbEB2BFd * Jul-12-2023
- -0xC762d56614D3411eC6fABD56cb075D904b801613

Base

Oracle0x0AdDd25a91563696D8567Df78D5A01C9a991F9B8

Supported DEXes * BaseSwap -0xb57CdEC62Df2AA93AC4C2449Eb50eB4d2f264f3e * RocketSwap

- * DackieSwap -<u>0x48f0E5C5A5f5E5d49f3EaF8f5E242C7550629544</u> * HorizonDex
- -0xcdEee819aEf73511331522552Ca1E54e771D40ed * SushiSwapV3
- -0xf71502f807C37A5aD9bB50aA983423907647bF96 * UniswapV2 -0x4C5B9573dE7660c097F1a21050038378CD691066
- * UniswapV3 -0xE85B42805e046D1933EB8e1C543C4da4E5e8fFa3 * VelocimeterV2
- -0x26daCf7E879b18FE658326ddD3ABC0D6910B3E9F Supported wrappers * WETH
- -0x3Ce81621e674Db129033548CbB9FF31AEDCc1BF6 * AaveV3 -0x0C8fc7a71C28c768FDC1f7d75835229beBEB1573 *

CompoundV3 - 0x3afA12cf9Ac1a96845973BD93dBEa183A94DD74F Supported connectors * NONE

- -0xEB466342C4d449BC9f53A865D5Cb90586f405215 Prev oracle versions (legacy) * Aug-09-2023
- -0x52cbE0f49CcdD4Dc6E9C13BAb024EABD2842045B

Examples

- Single token-to-ETH price usage
- Multiple token-to-ETH prices usage Edit this page Previous Liquidity Source and API Next Examples