

2 August 2024

Methanol Methodology

Date of last formal consultation: 1 February 2022

Expiry date of this methodology document: 1 February 2025



General methodology

ICIS continuously develops, reviews and revises its methodologies in consultation with industry participants. The product specifications and trading terms and conditions used are intended to reflect typical working practices in the industry.

ICIS publishes market assessments based on information gathered from market participants about: spot transactions, spot bid and offer levels, contract price negotiations, prices of related commodities, and relevant freight costs.

ICIS does not make retrospective adjustments or changes to price assessments based on information received after publication time or after any cut-off point specified in individual methodology documents.

ICIS regards all arm's-length transactions which meet its specification criteria as carrying equal weight.

ICIS uses proprietary models where necessary to normalise data to the typical specifications for cargo size and date ranges given for each commodity.

Some ICIS assessments are the product of calculation alone, for example in markets where insufficient market activity takes place to permit price assessment, or where a market itself habitually sets prices according to a formula. Such calculated assessments are noted as such in their detailed methodology specifications.

ICIS endeavours to cross-check all the transaction information it gathers. ICIS will not use information for assessment purposes where such checks call into doubt the accuracy of the original information, or where a transaction appears to have occurred under circumstances that render it non-repeatable or otherwise markedly unusual.

Rationale for methanol methodology

All ICIS-published spot assessments in the weekly methanol reports are so-called "week's range" assessments. That is, they are intended to represent the tradable value throughout the week leading up to the date of the report. Similarly, in the daily reports they are for the whole day. ICIS will indicate days where closure of particular markets due to public holidays would result in non-publishing and non-assessment days. The full week is defined from the report's deadline, e.g. Friday 17.00 to the following Friday 17.00.

The value published is intended to reflect the real transactable value of a commodity during the course of the week. As such, transaction information would take precedence over bids and offers.

Where a confirmed deal is done for the same specification and loading range as confirmed bids and offers, and when all are declared to the market simultaneously, the deal will take precedence over the bids and offers. In a liquid trading period, deals will form the basis of assessments. In an illiquid market, a single or small number of deals will be included in the range. In the absence of any deals, editorial judgment will be used, including sentiment, bids and offers. During the assessment process we may consider other



information. However actual transactions, and bids and offers will always take precedence.

ICIS takes into account a wide range of market input in making such choices, and reserves the right to exclude from its analysis any price information deemed unreliable or unrepresentative of the market. ICIS commits to describing the information it deemed reliable in the market comment accompanying its assessments, including transactions, bids, offers and other market information used in making these assessments. This includes instances where ICIS typically makes assessments based on firm transaction or bid/offer information, but where that information was not available on a given day and alternative evidence was used.

Cargoes partially loading outside of the Assessed Trading Timeframe may be reflected in the assessment, but will not typically be used where there is deal/bid/offer information within the assessment period.

ICIS has adopted this “week’s range” methodology for Methanol reports based on several decades of market observation and feedback. Other measurement strategies, for example weighted averaging, are vulnerable to random variation in transaction levels and volume, which can give rise to distortions.

In addition, the exact volume of transactions for any given product is unknowable in advance, and a volume-dependent methodology is exposed to: a) the charge that lower volumes will result in less accurate prices, and b) to the possibility of failure in the event no transactions occur.

Specifications for methanol

ICIS pricing quotes methanol in **Europe, Asia-Pacific, China** and the **US Gulf**.

Frequency: Published weekly on Fridays, and a Methanol Daily (Asia-Pacific) report is published Mondays-Fridays.

Real time Price Alert Service (PAS) delivering market news and trends throughout the day.

Price assessments are based on information supplied by market participants through the week up to close of business on Fridays at 1700 hours in London, Houston and Singapore with the exception of the India market where the close of business is at 1730 hours in Singapore.

Daily assessments are based on information gathered throughout the day up to the close of business at 1700 hours in Singapore, with the exception of daily ex-tank assessments for India, which close at 1730 hours in Singapore.



Specifications: ICIS pricing quotes product, except in China, that is IMPCA or ASTM D1152-89 standards approved. This is based on 99.85% minimum purity and a water content of 0.1%. Acidity is limited to 30 mg/kg. Pricing quotes in the domestic Chinese market are up to GB338-2011 standards.

Timing: Cargoes loading or delivered in Europe one month forward from the date of publication, and two-nine weeks delivered for CFR quotes in Asia with the exception of India. In India, cargoes are two-six weeks delivered for the CFR quote. In China, domestic spot cargoes are for delivery up to 10 days forward from the date of publication, while the domestic Taicang forward cargoes are for delivery between the 20th and 30th day of the following month. US spot barge quotes are for loading within three weeks of publication date.

Terms: 30-60 days after bill of lading date for regions outside of China and 30- 90 days for CFR China trade. Chinese domestic spot prices are assessed at-sight basis. A 0-10% deposit applies for Taicang China forward cargoes. A standard normalisation process for cargoes which fall outside this basis will continue, using interest rates widely used by market participants.

Partial advance payments in markets such as India will be taken into consideration in conjunction with other market fundamentals.

Standard cargo size: A typical spot cargo size into Rotterdam is between 1,000-3,000 tonnes. In Asia, typical trades for assessment vary depending on country. Please see below for details. US price quotes typically reflect deals done for volumes of at least 10,000 barrels.

Assessment basis: Methanol price assessments are based on reported business and bids-offers heard throughout the week.

In Europe, the quarterly contract number is included in the published price range once the major players in market settle a contract price and it is fully established in the market. The contract price is T2 product. The spot price range includes FOB Rdam transactions reported as physical deals loading one month from when the deal was done and concluded between buyers and sellers during the previous week. Certain prices may be excluded from the range if they have been negotiated in unusual circumstances or if special conditions are thought to apply. In the absence of business, the price spread can also move based on prevailing market sentiment, and CIF deals may also be used in the FOB range at editorial discretion.

In Asia, spot price assessments are based on information gathered throughout the week (Monday to Friday) from market players comprising producers, end-users and traders. The process of evaluation firstly takes into consideration confirmed deals, then reported deals. Best bids and offers or buying/selling indications will also be taken into consideration in the formulation of



assessments in the absence of, or in conjunction with, confirmed deals, especially if they are in line with rapidly changing market fundamentals.

The published prices refer to spot prices subject to import duties of Middle Eastern origin. Deals which are not subject to import duty because of the free trade agreements (FTA) will be included in the assessment, but such prices will be normalised to levels equivalent to those subject to import duties.

ICIS is committed to assessing only deals, bids and offers on a fixed price basis. A published spot price plus a premium or discount is commonly referred to as the floating price. The spot prices applied in floating prices typically refer to the prices of transactions done the week before, the week during the bill of lading/notice of readiness and the week after. Cargoes transacted based on floating prices will be reported in the market commentary. Cargoes are also transacted with conditions which deviate from the above clauses, but will not be assessed.

In the absence of deals, offers or bids, the published price range may be adjusted to accurately reflect the levels at which trading activity can take place, based on the majority market sentiment and the highest buying indications and the lowest selling indications. Factors affecting price movements including supply/demand information; plant operating rates; feedstock, derivative markets and market economics; deep-sea cargo movements and general sentiment, will be taken into account.

Certain prices may be excluded from the range if they have been negotiated in unusual circumstances or if special conditions are thought to apply.

The import quotes do not specify the purpose of importing the cargo. ICIS will consider it as a CFR price as long as a deal has been concluded on a cost and freight basis.

Individual markets have different characteristics.

CFR Korea: Supply into Korea is currently divided into the following two pricing methods:

1. Contract Pricing based on USCP + European CP. ICIS does not consider this in its assessments.
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2. Spot pricing, which occurs occasionally and is included in the range. The price assessment includes trades for typical 3,000-10,000 tonne parcels.

The Korea import market is generally illiquid and the CFR Korea assessment takes into consideration bonded warehouse cargoes, import parity of Korea domestic prices, end users' buying indications, and the lowest sellable price of



re-export cargoes from China after applying storage tank costs and freight rates. Deals that do not reflect re-exports from China may be considered for assessment purposes at the high end of the range.

CFR Taiwan: Spot parcels tend to be negotiated based on a price-formula off the current spot CFR Taiwan published prices. The price assessment includes trades for a typical parcel of around 3,000-10,000 tonnes.

CFR SE Asia Main Ports: Reflects trades into southeast Asia main ports such as Singapore, Kuantan, Kertih, Port Klang, Dumai and Batam. The price assessment includes trades for typical lots of around 2,000-5,000 tonnes.

CFR China (All Origins): Cargoes, of all origins, delivered into China. Price assessments are typically for 3,000-30,000 tonne shipments.

CFR China (Specific Origins): Cargoes, of specific origins, delivered into China. The list of countries whose cargoes are considered for assessment purposes includes Bahrain, Brunei, Chile, Indonesia, Malaysia, New Zealand, Oman, Qatar, Saudi Arabia, Trinidad, and the US. Price assessments are typically for 3,000-30,000 tonne shipments.

With effect from 2 January 2024, the midpoint of the daily CFR China (All Origins) quote is derived using a calculation-based model referencing the domestic ex-tank forward price in China, when there are insufficient import deals to form an assessment range.

The daily midpoint of the ex-tank Taicang (China) forward price quote is converted to USD/tonne with the following import parity calculation formula taking into account import duties and other taxes at 5.5% as well as the local value added tax (VAT) at 13%.

Import parity = [Ex-tank Taicang forward price – storage tank and other miscellaneous costs (CNY/tonne)] / 1.055 / 1.13 / exchange rate.

The exchange rate is the selling rate taken from the Bank of China (BOC) website, published daily at 02:30 GMT. Prices will be rounded up or down to the nearest multiple of 0.5.

The formula is further adjusted for premiums or discounts based on information from the market.

The high-end of the daily CFR China (All Origins) quote is assessed at parity to the high-end of the daily CFR China (Specific Origins) assessment.

The low-end of the daily CFR China (All Origins) quote is calculated from the differential between the high-end and mid-point of the range.



The weekly CFR China (All Origins) assessment range is formed using the high-end of the weekly CFR China (Specific Origins) assessment and the lowest low-end of the daily CFR China (All Origins) assessments from Monday to Friday.

The Chinese market is highly influenced by distribution dynamics. Consequently, CFR China prices are not always in proportion to the local Chinese Renminbi (RMB) prices. Eastern and southern Chinese markets do not always behave in tandem. Prices in Shandong (northern China) are slightly lower due to the presence of local producers.

The CFR China price quotes reflect cargoes subject to import duties of 5.5%. Imports from ASEAN (Association of South East Asian Nations) and New Zealand enjoy zero tariffs in accordance with a free trade agreement with China. Cargoes subject to differing import duties will be included in the assessment after their import duties have been normalised to the 5.5% basis. These Southeast Asian and New Zealand cargoes will be included in the assessment after their import tariffs have been normalised to the 5.5% basis.

The CFR China and southeast Asia weekly and daily assessments delineate the typical tradable range for a full working day or week. The spot prices in the Asia daily and weekly reports are assessed independently of each other. The “week’s range” is not derived using the lowest and highest of the daily assessments due to the nature of the market with the exception of the weekly CFR China (All Origins) assessment. Spot liquidity tends to be inconsistent during the week, with the bulk of the transactions taking place towards the later part of the week.

The daily assessments are typically based on a combination of bids, offers, and/or buy-sell indications, in addition to deals to ensure that there is sufficient data to form a price range that is reflective of the market.

The weekly assessment reflects mainly deals concluded in the week. Bids, offers and/or buy-sell indications may be taken into consideration in weeks when liquidity is insufficient.

Assessments will take into consideration bonded warehouse cargoes in the absence of CFR-based deals. The bonded warehouses are typically located in major ports in eastern and southern China.

Ex-tank China: Ex-tank prices from major producers and distributors in eastern and southern China. Ex-tank prices include the local taxes, storage costs, handling charges, and are taken as such. They are the net transacted prices. The price is the aggregate of East China (ex-tank) and Guangdong (ex-tank). The low end is taken from the lowest price of the two combined quotes and the high end is derived from the highest prices of the quotes, whichever is higher.



East China (ex-tank): Refers to the ex-tank prices at major ports in Jiangsu and Zhejiang. Jiangsu prices are based on ex-tank prices at Taicang, Jiangyin, Nantong, Zhangjiagang, Changzhou, Zhenjiang, Taizhou and Nanjing ports. Zhejiang prices are based on ex-tank prices at Ningbo and Pinghu port. Prices are assessed for cargo sizes of 100-2,000 tonnes.

Ex-tank Taicang (China) Forward: The daily price quote which will be launched on 3 January 2023 refers to the ex-tank forward trade at Taicang port in Jiangsu. Prices are assessed based on 1,000-tonne import cargoes.

Ex-tank China Forward: The full-week price assessment which will be launched on 6 January 2023 is derived from the lowest and highest ex-tank Taicang (China) Forward daily prices for that week.

Guangdong (ex-tank): refer to ex-tank prices at major ports in Panyu, Nansha and Dongguan. Prices are assessed for cargo sizes of 100-2,000 tonnes.

Inland China (ex-works): Prices based on ex-works prices of local major methanol producers in north China, northwest China, northeast China and southwest China to local buyers.


CFR W.C. India: Since trade is mostly spot, suppliers have to pay higher vessel freight rates even though the distance between the Middle East and India is closer than the Middle East to China. Price assessments are for typical cargo sizes of 3,000-10,000 tonnes.

ICIS will only reflect or consider deals, bids and offers presented in outright numbers in its CFR W.C. India price assessments. The CFR W.C. India assessment does not include premiums or discounts.

In the absence of deals and/or discussions in periods of low liquidity, ICIS will consider using a calculation-based model for the CFR WC India assessment referencing 1) the freight differential between India and China for cargoes of Middle East origin and 2) the import parity equivalent of the domestic prices in India.

The first price component is calculated by subtracting the weekly CFR China mid-point price with the difference in Al Jubail - CMP and Al Jubail - WCI freight rates based on 10,000 mt easy chems on fixed routes. Both freight rates are found in the Asia ICIS Chemical Tanker Shipping and Methanol reports.

The second price component is derived from the weekly ex-tank India mid-point assessment with the following formula. Import parity = (Ex-tank India price in INR/tonne – INR1,000) / 1.0275 / exchange rate. The formula takes into consideration storage tank costs, other miscellaneous costs at INR1,000 as



well as import duties and other taxes at 2.75%. The exchange rate is provided by xe.com and taken from the forex page on ICIS Dashboard.

In addition, buying and selling indications from market players will also be considered.

Ex-tank India: refers to ex-tank prices in Kandla for cargoes of 100-300 tonnes with a 60-70 day line of credit and 30-day storage conditions and includes handling charges.

In the US, contract assessments represent the average benchmark transaction price as reported by the majority of industry sources for medium-to-large buyers.

Spot FOB barges are quoted to represent the bid/offer range reported for the whole week (Monday to Friday) and as the bid/offer range reported towards the close of business on Friday (between 1430-1700). Both quotes represent spot price assessments for loading (or delivery) within five weeks of publication date.

In the weekly methanol (US GULF) report, the published spot prices are assessed from business concluded for loading or delivery within five weeks of the publication date, with the exception of prompt parcels that may be a result of distressed sale or a sale with a specific date premium. Quotes are offered for medium to large buyers. In addition, transactions are often completed in the New York Harbor (NYH) at a slight premium to business done in the USG. Such deals are still quoted on an FOB USG basis.

Netbacks: Netback calculations (i.e. CFR prices derived from FOB numbers + freight) are not usually considered sufficient to warrant an automatic adjustment of CFR assessments on the basis of open market freights. The use of COA vessels in Asia-Pacific and the need for employment can lead to below-market freight components to apply. Similarly southeast Asian price assessments are not adjusted on northeast Asian prices + freight component, or vice versa.

Normalisation: In exceptional cases where the lack of liquidity represents a challenge in making assessments, editors can choose to adopt a normalisation process to include deals/trades information which falls outside the standard specifications listed in the methodology pertaining to, but not limited to, volume, timing, delivery, payment terms, import tariffs, product specifications and other operational matters. The normalisation process adopted should be in line with standard practices and will only be used either as a reference for assessments, or be included as part of the assessment range. Where normalisation has occurred and has been reflected in a published price assessment, this will be described in the text of the report and the process will be described and justified.



Methanol (EUROPE)

Weekly Price Assessments

Methanol Quarterly Contract Price

- FOB RDAM (EUR/MT & conversion to US CTS/GAL)

Methanol Spot Price

- FOB RDAM T2 (EUR/MT & conversion to US CTS/GAL)

Methanol (ASIA-PACIFIC)

Weekly Price Assessments

Methanol Spot Prices

- CFR KOREA (USD/MT & conversion to US CTS/GAL)
- CFR TAIWAN (USD/MT & conversion to US CTS/GAL)
- CFR S.E. ASIA Main Ports (USD/MT & conversion to US CTS/GAL)
- CFR W.C. INDIA (USD/MT & conversion to US CTS/GAL)
- CFR CHINA (All Origins) (USD/MT & conversion to US CTS/GAL)
- CFR CHINA (Specific Origins) (USD/MT & conversion to US CTS/GAL)
- EX-TANK CHINA (CNY/MT & conversion to US CTS/GAL)
- EX-TANK CHINA FORWARD (CNY/MT & conversion to US CTS/GAL)
- EX-TANK INDIA (INR/KG & conversion to US CTS/GAL)

Daily Price Assessments

Methanol Spot Prices

- CFR CHINA (All Origins) (USD/MT & conversion to US CTS/GAL)
- CFR CHINA (Specific Origins) (USD/MT & conversion to US CTS/GAL)
- EX-TANK EAST CHINA (CNY/MT & conversion to US CTS/GAL)
- EX-TANK TAICANG (CHINA) FORWARD (CNY/MT & conversion to US CTS/GAL)
- EX-TANK GUANGDONG (CNY/MT & conversion to US CTS/GAL)
- EX-TANK INDIA (KANDLA) (RS/KG & conversion to US CTS/GAL)
- CFR S.E. ASIA Main Ports (USD/MT & conversion to US CTS/GAL)



Methanol (CHINA)

Weekly Price Assessments

Methanol Spot Prices

- CFR CHINA (All Origins) (USD/MT & conversion to US CTS/GAL)
- CFR CHINA (Specific Origins) (USD/MT & conversion to US CTS/GAL)
- East China (ex-tank) (CNY/MT)
- EX-TANK CHINA FORWARD (CNY/MT)
- South China (ex-tank) (CNY/MT)
- Inland China (ex-works) (CNY/MT)

Methanol (US GULF)

Weekly Price Assessments

Methanol Monthly Contract Price

- FOB BARGE (US CTS/GAL & conversion to USD/MT)

Methanol Spot Prices

- FOB DOM BARGE – price range at close of business Friday (US CTS/GAL & conversion to USD/MT)
- FOB DOM BARGE – price range for the week (US CTS/GAL & conversion to USD/MT)

In the US, the net contract price usually settles at the end of the month for the coming calendar month (e.g. at end of October for November).

The CDI Market List assessment is the methanol market reference price in the US. It is the higher of the two publicly announced prices by Methanex and Southern Chemical Corporation.

The CDI Contract assessment is a discounted price for large buyers of methanol in the US.

Other principles and guidelines

Changes to methodology

All markets evolve and ICIS has a duty to ensure its methodologies for market-reporting evolve in step with markets.

ICIS therefore regularly conducts internal reviews of the appropriateness of its methodologies, based on industry feedback.

Draft changes are then made public and comment requested from industry participants, with a minimum one-month notice period, except where,



exceptionally a *force majeure* event (natural disaster, war, bankruptcy of a trading exchange etc.) makes necessary a shorter notice period.

ICIS is committed to reviewing all comments on proposed methodology changes, but in some cases may find it necessary to alter its methodologies against the wishes of some market participants.

In addition, ICIS has a formal methodology consultation process. The company commits to holding this consultation every three years for the Methanol Reports. The date of the last consultation launched and the expiry date by which the company commits to conducting the next consultation can be seen at the top of the methodology document.

Please also refer to the Methodology Consultation Process section of the company's Compliance Manual. This contains detailed flow charts documenting the internal and external review and consultation process.

Consistency

ICIS achieves consistency between its assessors in exercising their judgement by requiring all assessors to follow this detailed methodology as well as the company's Editorial Standards document. In addition, ICIS reporters are required to complete standard training before undertaking the work of a market reporter. Every reporter's work is spot checked.

Data standards

ICIS has a public Data Standards Policy which covers the type and quality of information we ask market participants to report.

The following principles relate to ICIS methanol assessments and commentaries:

- Where possible, please allow access to active market traders and allow them to comment on active news stories.
- Where possible, please provide market data from both front and back-office functions.
- Where possible, please provide complete data and not a subsection.
- Flag inter-affiliate transactions.
- Flag sleeve trade.
- Flag spread trades.
- When a source or contact leaves the organisation please contact ICIS to the replacement (ICIS requests that both the source and the organisation contact them).
- Where information is not validated by the source (i.e. rumour) please indicate as such.

Delivery locations for price assessments

Locations for ICIS methanol assessments are chosen to reflect the concentration of liquidity on the traded markets.



Exercise of judgement

Apart from instances where data may be excluded (see below), ICIS will typically exercise judgement where market information about firm bids and offers or transactions is not available.

In most cases this will involve the application of spread trade information or prevailing market relationships, detailed in the specifications section for each grade in this document.

ICIS will also exercise judgement where only a bid or offer is available, or where a bid/offer spread is so wide as to be unhelpful in establishing tradable value. In both instances, spreads to other grades or prevailing market relationships will typically be used to assess the price. In these cases the assessment will still fall above the highest firm bid and below the lowest firm offer, as long as the bid and/or offer information meets all other criteria specified in this methodology.

Exclusion of data

In line with its Editorial Standards policy, ICIS reporters actively seek to identify anomalous market information and exclude it from the assessment process. In assessing methanol markets, ICIS takes into consideration only arms-length transactions between non-affiliated parties.

ICIS does not accept bids or offers that are not firm. Any bid or offer which is demonstrably not firm will be disregarded and further bids or offers from the same counterparty may also be disregarded.

ICIS also excludes from its assessments transactions where ICIS market reporters have reasonable grounds to doubt that a transaction is representative of typical market behaviour: for example, where a deal is concluded disregarding the best bid or offer on the market; where there is evidence that a market participant has disclosed only part of its market activity to ICIS; or where a transaction lies outside the prevailing range of typical market activity.

ICIS records instances of anomalous data and reviews these instances on a regular basis with a view to determining if a pattern exists.

Where market reporters have concerns over the behaviour of a market participant, this will be escalated using the ICIS Escalation Process for Compliance and Regulatory Issues. This can be found in the company's Compliance Manual.

Market communication

ICIS communicates with a broad range of market participants – traders, brokers, back-office employees, supply managers, operations personnel and company executives – to obtain market information.

ICIS communicates with participants by telephone, email, instant messenger and in person. All instant messenger, email communication and notes of any face-to-face communication are archived and details of telephone communication are logged and data-based.



ICIS does not accept instant messenger communication from unknown parties, and reporters are required to verify a market participant's identity prior to using IM communication.

ICIS does not regard in any way as binding attempts by companies to restrict ICIS communication with their employees. ICIS has a duty to its subscribers to obtain the maximum possible amount of market information. ICIS treats all communication from market participants as confidential.

ICIS reporters are bound by a Code of Conduct to report to their superiors any coercive or threatening communication from market participants, or any offers of inducements of any kind intended to influence an assessment.

Where improper communication appears to have taken place, ICIS will communicate in the first instance with senior management at the company or companies involved, and if necessary with relevant market authorities.

ICIS expects the highest standards of propriety from all market participants, and regards all communications from market participants as representative of the views of an individual's employer.

ICIS is committed to the highest levels of customer service, and has a formal feedback and complaints policy, which can be viewed here:

<http://www.icis.com/about/icis-feedback-policy>

Market data verification

ICIS will always make best endeavours to confirm bids, offers and transactions with the relevant party/parties. ICIS attempts to cross-check all market data received from a buy or sell-side participant with a participant's trading counterparty.

Where both counterparties to a transaction cannot or will not confirm the data, ICIS seeks corroboration from other market sources.

Where transaction or bid/offer information has been received from a trader rather than from a company's back office, ICIS always seeks confirmation from other sources.

Where ICIS has grounds to doubt an item of market data, it may request further evidence that a transaction has taken place, including documented evidence.

ICIS treats transaction data received from active brokerages as confirmed.

On occasion, in markets with low liquidity and a low number of counterparties, ICIS may choose to use unconfirmed data, but only in so far as it is aligned with other market information and comes from a source deemed reliable by ICIS based on previous interactions.

Minimum data threshold

Because of the sometimes thinly traded nature of some markets, ICIS does not have a minimum data threshold for its assessment methodologies in this market.

ICIS makes clear in its daily market comments whether it has assessed a price based on transaction or bid/offer data or whether it has used other forms of evidence or calculation.



Selection of participants

ICIS policy on general market data is that we welcome all information regardless of source or constitution as long as it is provided in good faith as true.

However, only active market participants verified as such by existing active industry participants and verified as a viable business by ICIS investigations will be allowed to contribute price data to ICIS for the purpose of assessing tradable market value under this methodology.

Unit prices and credit terms

Methanol in all regions is generally traded in US dollars/tonne, cents/gal or euros/tonne and therefore all price assessments are quoted on these bases. Typical credit terms for methanol are 30-90 days from Bill of Lading date.

Volumes

For each region ICIS publishes the standard cargo size, found in the specifications sections of this methodology document. Market information for cargoes conforming to these standards will be fully considered in the assessment process, providing the information conforms to all other specifications and conditions published in this methodology.

As indicated earlier, if ICIS has market information regarding cargoes outside of these published ranges, it will be normalised together with any standard-sized cargo information. In this case, ICIS will seek to establish whether there is a market price premium or discount for the non-standard cargo and apply this for the purpose of making its assessment.

General Methodology Guide for ICIS Chemicals

ICIS endeavours to provide a fair and timely representation of traded prices, which could be used as an effective reference point for market participants. As no two markets are the same, ICIS hopes to tailor methodologies which reflect the needs of each specific commodity market it covers based on factors such as, but not limited to, geography, trade flows/logistics, market size, product characteristics, participants and regulation. ICIS adopts an open policy to feedback regarding its methodology and will conduct reviews on a regular basis.

Spot range assessments

Published daily and weekly, these delineate the typically tradable range for a full working day or week.

The range is normally established using verified typical transactions and standardized atypical transactions.



In the event that no relevant transactions have occurred in the assessed period, ICIS will establish a range using bids and offers for typical spec material; and using established market relationships resulting from manufacturing economics, product linkages, freight and forward markets.

ICIS Mid-Point

Established referencing to ICIS prices often refer to the mid-point of the range as the fair representation of the commodity's traded value.

Weekly range assessments are marked in some ICIS reports with a "+" to distinguish them from spot close assessments (see below).

Instrument function: In liquid markets, ICIS would typically focus on the majority traded principle which would typically exclude deals considered to be outlier deals and unrepresentative of the general market consensus. Provides overview of market activity over course of one day in the case of daily reports, or one week in the case of weekly reports. Any change in assessment periods as a result of public holidays arising in any given week will be indicated via subscriber notes. Width of range offers insight into current levels of market volatility, and could also infer associated differentials caused by logistical and product variances.

ICIS endeavours to keep a tight range through maintaining detailed methodologies but this is difficult in thinly traded markets. Variable range width means assessment trades off accuracy for inclusivity, and transparency is reduced vis-a-vis spot close assessment. Suitable for inclusion in averaging mechanisms and market analysis tools.

Spot close assessments

Published daily and weekly, these reflect the transactable market value of the assessed product at the close of business for the assessed period (daily or weekly). Assessments are nevertheless shown as a low-high range, indicating the "space" in which a transaction is deemed to have been possible at the specified time. This low-high is typically tighter than that shown in a Spot Range assessment. The assessment is established taking into account:

- typical, repeatable transactions at arm's length between non-affiliated market participants;
- standardized "atypical" transactions, where it is possible to derive a typical equivalent market value for a transaction which does not conform to standard specifications;
- bids and offers for typical spec material;
- movements in related markets. In the absence of reliable, confirmable market information for a specific commodity, ICIS reserves the right to compute changes in specific assessments based on established relationships



derived from manufacturing economics, product linkages, freight, and forward markets.

Weekly/Daily Spot Close assessments are marked in some ICIS reports with a “*” to distinguish them from Spot Range assessments (see above).

Where possible, editors will indicate any weightage used for spot close assessments which are weighted towards an active period.

Instrument function: Reflects most recent tradable market value with high transparency and high accuracy. Suitable for inclusion in averaging mechanisms and market analysis tools.

Indexes

In some markets, ICIS publishes volume-weighted averages – known as “indexes” or “indices” – of verified typical transactions over specified periods, either daily or weekly.

Inputs to an index are checked editorially for conformity to specification and statistical outliers are eliminated. See individual methodologies for details.

Instrument function: An index is a mathematically derived indicator of typical traded value over a given period. Because it is an average, the deviation from the last transacted value at the close of business could be substantial, depending on the time period assessed hence does not always provide a currently transactable price indication.

Contract reference prices

These are publicly announced, often single number, reference contract prices, agreed in multilateral negotiations and used as a base price for contractual sales of material by producers, typically between major producers and large end-users. ICIS publishes Contract Reference prices once confirmation is obtained of at least two agreements between recognised contract partners of significant size. Note that the date of publication can vary for each contract period depending on the speed of industry negotiations.

It is common for discounts to be associated with announced contract prices, which are usually not common knowledge.

Instrument function: Contract reference prices are used in some markets as the basis for monthly or quarterly contracts and form the basis for further negotiations between producers and buyers on volume-related discounts or premiums.



Contract price assessments

Published weekly, these reflect the achievable “base price” for contractual sales of material by producers, either to onward “distributors” or direct to end-users. Prices, typically valid either for one month or for three, are arrived at by negotiation between producers and buyers, and are updated by ICIS once confirmation is obtained of agreement between major producers and typical buyers of the size indicated in individual specifications. Note that most contract prices are agreed as a base from which discounts or premiums are given to individual buyers, and that the size of these discounts typically varies based on the volume purchased over the contract period by the buyer.

In the event that market participants fail or decline to confirm outright contract price levels to ICIS, ICIS reserves the right to make its assessments of achievable contract prices based on established market relationships derived from manufacturing economics, product linkages, freight, and forward markets.

Instrument function: Provides view of baseline for currently prevailing contract mechanisms, where these are statically determined – that is, bilaterally negotiated contracts not based on automated averaging of spot market prices.

Distribution indicators

Published weekly for some markets, these reflect contract prices net of known discounts to typical-sized product distributors. See individual methodology statements for details.

Instrument function: Provides additional insight into typical prices paid by buyers in statically determined (i.e. bilaterally negotiated contracts not based on averaged spot market prices).

Margins

Published in ICIS Margin Reports, margin prices reflect computed differentials between different products related through the processing chain.

Instrument function: Provides insight into supply chain economics and industry profitability. A useful reference for baseline production cost calculations, particularly by tracking the margin shifts across different periods. Theoretically determines scope of pricing further along processing chain. Note that market behaviour sometimes violates apparent margin economics. Suitable for in-depth market and industry analysis.

List or posted prices

Published weekly for some markets, these are released by manufacturers as suggested selling prices. In many cases, these prices are reduced after negotiations with buyers. Price changes are sometimes used as important references for negotiations in thinly traded markets.



Price changes

The change in prices from the previous period is indicated in blue as an increase (+), in red as a decrease (-) or no change (n/c) or not assessed (n/a). Changes for prices at the low end of each range are shown at the left and changes for prices at the high end of each range are shown at the right. Changes in weekly spot prices represent the changes from the previous week and changes in monthly or quarterly contract prices represent the change from the previous month or quarter.

Report name

Some reports cover a range of products. Trade in product of inferior quality (off-spec) is taken into consideration when it affects the market for material that meets standard specifications. Reference to off-spec/distressed cargo is at the discretion of the editor.

Periods referred to in contract price quotations are either months (noted by standard abbreviations) or quarters of the calendar year.

Q1 January February March
Q2 April May June
Q3 July August September
Q4 October November December

Feedstock prices

Contract prices for certain feedstocks are shown where appropriate. In all cases where feedstock prices are shown, they have been taken from the current ICIS pricing report for the product.

Date

ICIS pricing reports are written on the day of publication. The only exceptions are when a public holiday impacts the market. In some circumstances reports will be compiled one or a maximum two days early. When this occurs, it is clearly marked on the report. ICIS pricing provides daily and weekly pricing reports. Deadlines (unless otherwise specified in the methodology) are 1700 hours local time in London, Singapore, Shanghai and Houston. Market close prices refer to this deadline, unless specified otherwise.

Contract price assessments are updated in reports as soon as possible after confirmation is obtained of contract settlement. Because the amount of time required to reach contract agreement varies from month to month, it is not possible to guarantee publication of monthly contract prices at the same point in each month.



Note that information received after the relevant close cannot be used for assessment purposes, nor can a correction be issued based on subsequently received information.

The date of publication is not altered in the event of public holidays. All weekly reports are published at least 50 times per year. Certain reports are not published during a two-week period in late December/early January. Daily reports are published five times per week, but may not appear on certain days due to public holidays. Please refer to the ICIS pricing publishing schedule for more detailed information.

Geographical regions

ICIS pricing normally covers products on a regional basis to ensure the main drivers impacting the market in any given area are adequately covered. Reports are currently issued covering Europe, the Middle East, Asia or Asia-Pacific, China, India, West Asia, the United States or North America, Latin America, and the Former Soviet Union.

Within these broad areas the most common quotations comprise:

NWE	mainland Northwest Europe (N. France, N. Germany, Benelux)
Med	Southern France, Spain, Italy
NE Asia	Taiwan, Korea, Japan, China
SE Asia	Singapore, Philippines, Indonesia, Malaysia, Thailand, Vietnam
West Asia	Pakistan, India
East Asia	NE Asia & SE Asia
GCC	Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, UAE
E. Med	Greece, Israel, Egypt, Syria, Jordan, Lebanon
FSU	Former Soviet Union: Russia, Ukraine, Belarus, Uzbekistan, Kazakhstan
USG	US Gulf
CMP	China Main Port
Northern Africa	Morocco, Algeria, Tunisia, Libya, Egypt, Sudan
Eastern Africa	Eritrea, Djibouti, Somalia, Kenya, Tanzania
Southern Africa	Namibia, Mozambique, South Africa



Western Africa Mauritania, Senegal, The Gambia, Guinea-Bissau, Guinea, Sierra Leone, Liberia, Côte d'Ivoire, Ghana, Togo, Benin, Nigeria.

Quotation basis

Prices are quoted with reference to the terms and location of delivery. The period of delivery is also quoted for contract prices. Assessment windows vary from product to product for spot sales. See specific product entries in the Methodology for further details.

Incoterms devised by the International Chamber of Commerce are mainly used to indicate what costs are included in the price. Assessments do not include Value Added Tax (VAT). Terms regularly used in ICIS pricing reports can be found in the Glossary.

Units

Prices are quoted in the currency and unit measure relevant to the particular market. Most chemicals are quoted in US dollars per metric tonne (\$/MT), although euros per metric tonne (€/MT), US cents per pound (US CTS/LB) or US cents per gallon (US CTS/GAL) are frequently used. Historical data includes assessments previously measured in European currencies superseded by the euro.

Conversions (weights and measures)

Prices are converted to other currencies and unit measures for ease of reference. Conversions are derived from the quoted price assessments using standard rates of conversion and current exchange rates. Conversions involving weights and volumes are calculated within industry acceptable ranges, which vary from product to product according to specific gravity (e.g. USD/MT to CTS/GAL).

Foreign exchange rates

ICIS provides exchange rates for a variety of international currencies that are time aligned with publication of our pricing reports and consistent for analytical use when applied to historical pricing data. Because of our publishing schedule, certain rates used in some reports may be changed as data moves into a historical database. The ICIS methodology used is as follows:

Rates are not established by ICIS pricing but are published by arrangement with Xenon (www.xe.com). The exchange rates shown are those in effect at the time and date indicated, normally around 17:15 hours in London on the day of publication. They are not a mean or average of exchange rates in effect during the period since the report was last published, but reflect a mean of the bid/offer at the time taken for that particular day. Exchange rates published by



ICIS pricing are intended only as a reference and rates offered by local banks or other financial institutions may vary.

- Exchange rates quoted at the foot of the text in ICIS pricing reports are mid-market rates, quoted to two decimal places, applicable on the date of publication. ICIS pricing also offers a real-time currency conversion tool via XE.com, with a click-through link from the pricing reports, to enable subscribers to make quick exchange calculations.
- Exchange rates used for the current day's price assessments in compiling the charts contained within ICIS pricing reports are mid-market rates issued at 01:00 UTC on the date of publication. This preliminary exchange rate is used to allow charts to be produced ahead of 16:00 UTC.
- Exchange rates applied to historical data are mid-market rates issued at 16:00 UTC on the date of publication.

ICIS pricing also offers a real-time currency conversion tool, with a click-through link from the pricing reports, to enable subscribers to make quick exchange calculations.

Non-market price adjustments

Non-market price adjustments are necessary on the rare occasions when after careful consideration it is determined that the level of a price assessment is deemed to have become unrealistic. Before any decision is taken to adjust a price level, a broad spectrum of market participants is polled for their views on both the necessity and potential impact of any planned change and its timing.

Once it is clear an adjustment is required, ICIS pricing posts a notice telling subscribers it intends to make the change, and asks for any feedback over a two week period. After two weeks, and if it is decided to proceed, a second notice is posted informing subscribers that the adjustment will be made two weeks later. All price adjustments take place with a minimum four weeks public notice to subscribers.

Once the adjustment has taken place it is prominently mentioned in the price report it applies to. ICIS also adds a note to the online Price History to explain the apparent step-change in prices. It is important to note that price change deltas remain unaffected by any adjustment and the price trend remains accurate.

Contract Price Change Deltas

In some markets, contract settlements – especially quarterly ones – can evolve further after the initial assessment. This may mean that the actual market movement to the next settlement may not be fully aligned with the



mathematical difference between the reported prices in one period and the next. In such cases, ICIS may make an editorial decision to publish the new period's price range without including a delta value in the price table. The reasons for doing so and the indications of the actual market movement would be discussed in the text of the report. The delta box in these cases would show as "not assessed" (n/a).

Price history – key changes to methodology for contract prices

ICIS price history has been modified such that contract price assessments now relate to the period to which they apply irrespective of their settlement date. This change has been applied retrospectively to all quotes, including discontinued quotes.

As a result:

For a monthly contract (or quarterly) quote selected as frequency 'C' and downloaded as csv or displayed as a table in the original quoted currency the report date is given as the first of the month (or quarter). For a contract selected as frequency 'C' and displayed as a graph, a 'stepped' chart of the value (or average of the low and high where applicable) is displayed with the steps occurring on the first of the month (or quarter).

For a contract quote selected as frequency 'C' in any currency other than the original a single monthly (or quarterly) value (low, high and average) is displayed. This value is derived using an average of the foreign exchange rates taken at 16:00 UTC (GMT) on each of the publication dates within the month (or quarter). For the current period, the average foreign exchange rates for all the publication dates within the period to date are used.

For a contract quote selected as frequency 'W', the report date is given as the ICIS pricing weekly report publication date – the contract value (low, high and average) applicable to that month (or quarter) is displayed (which, depending on settlement date, may differ from the contract value reported at the time in that week's ICIS pricing report). For a contract quote selected as frequency 'W' and displayed as a graph, a 'stepped' chart is displayed with the steps occurring on the first publication date within the month (or quarter).

For a contract quote selected as frequency 'W' in any currency other than the original, the contract value is converted for each week using the foreign exchange rate taken at 16:00 UTC (GMT) on the publication date.

Where a contract for the current period has not yet settled, no contract value shows in a weekly price history series – price history terminates at the end of the period to which the last settled contract price applies.



Where a contract settles for a future period, it does not display in price history until publication of the first ICIS pricing report within that period.

Where an initial contract value is reported for a period, and subsequently revised, the latter (or latest) value is taken as the contract value for the whole period.