

3 April 2024

# Polyols Methodology

Date of last formal consultation: 8 March 2023

**Expiry date of this methodology document: 8 March 2026**



## 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 polyols methodology

All ICIS-published spot assessments in the weekly polyols 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. 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 illiquid markets, sole deals will be used together with 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, together with bids and offers. In the absence of any deals, bids and offers will be used. 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 polyols 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 Polyols

ICIS pricing quotes polyols in **Europe, Asia-Pacific, Middle East** and the **USA**.

**Frequency:** Published weekly on Wednesdays, apart from the Middle East report which is on Thursday.



## Polyether Polyols (EUROPE)

### Weekly Price Assessments

Flexible Polyols Monthly Contract Price

- SLABSTOCK CONVENTIONAL FD NWE (EUR/MT & conversion to US CTS/LB)

## Polyether Polyols (ASIA-PACIFIC)

### Weekly Price Assessments

Flexible Foam Spot Prices

- SLABSTOCK (BULK) DEL CHINA (USD/MT & conversion to US CTS/LB)
- SLABSTOCK (BULK) DEL E CHINA (CNY/MT & conversion to US CTS/LB)
- SLABSTOCK CFR S.E. ASIA (USD/MT & conversion to US CTS/LB)
- SLABSTOCK CFR INDIA (USD/MT & conversion to US CTS/LB)
- HIGH RESILIENCE CFR S.E. ASIA (USD/MT & conversion to US CTS/LB)
- 43-45% POLYMER POLYOLS CFR S.E. ASIA (USD/MT & conversion to US CTS/LB)

Rigid Foam Spot Price

- CFR S.E. ASIA (USD/MT & conversion to US CTS/LB)

## Polyols (USA)

### Weekly Price Assessments

Flexible Foam Domestic Prices

- SLAB BULK/DELIVERED (US CTS/LB & conversion to USD/MT)
- HIGH RESILIENCE BULK/DELIVERED (US CTS/LB & conversion to USD/MT)

South America Import Price for polyether polyols

- (USD/MT & conversion to US CTS/LB)

US Flexible Foam Polyether Polyols - Formula-Based Prices

- SLAB BULK/DELIVERED (US CTS/LB & conversion to USD/MT)



#### Rigid Foam Domestic Prices

- POLYESTER BULK/DELIVERED (US CTS/LB & conversion to USD/MT)
- POLYETHER BULK/DELIVERED (US CTS/LB & conversion to USD/MT)

### Polyether Polyols (MIDDLE EAST)

#### Weekly Price Assessments

##### Flexible Foam – Polyols Weekly Spot Prices

- DRUMMED 10.0-13.5% POLYMER POLYOLS CFR MIDDLE EAST (USD/MT & conversion to US CTS/LB)
- BULK 10.0-13.5% POLYMER POLYOLS CFR MIDDLE EAST (USD/MT & conversion to US CTS/LB)
- DRUMMED CONVENTIONAL POLYOLS CFR MIDDLE EAST (USD/MT & conversion to US CTS/LB)

##### Base Rigid Polyols Spot Price

- DRUMMED RIGID POLYOLS CFR MIDDLE EAST (USD/MT & conversion to US CTS/LB)

### General Information:

**Assessment window:** Price assessments are based on information supplied by market participants through the week up to close of business on Wednesdays at 1700hr in London and 1800hr in Houston. For price assessments in the Middle East, information is supplied by market players through the week up to close of business on Thursday at 1700 hours in Singapore.

**Specification:** The molecular weight of the conventional polyols reported is 3,000-3,500, 500-1,000 for rigid polyether polyols, and 200-1,000 for rigid polyester polyols.



The Middle East report assesses the prices of conventional (sucrose based) rigid foams with hydroxyl value (OH) values spanning 400-460 mgKOH/g, and conventional 10.0-13.5% solid-content polymer polyols.

The Asia Pacific report assesses the prices of high resilience polyols with molecular weight of 5,000, conventional rigid foams with OH values of 400-460 mgKOH/g and viscosity of 3,500-5,000 mPa.s/<sup>o</sup>c, and conventional 43-45% solid-content polymer polyols.

**Timing:** Cargoes loading or delivered four-six weeks forward from the date of publication. For the Asia-Pacific and Middle East reports cargoes delivered up to six weeks forward. In the Chinese domestic market, slabstock flexible foam polyols cargoes are for delivery within a week from the date of publication.

**Terms:** Typically 30-60 days after bill of lading date. China prices assume that the buyer holds a letter of credit with credit terms between 30-90 days, while terms elsewhere in Asia are up to 90 days.

CFR Middle East assessments assume that the buyer holds a letter of credit with credit terms between 60-120 days for cargoes of Asian origin. For cargoes of European and South Korean origin, DA (documents against acceptance) 90 days is accepted or 60-90 days after bill of lading date or open terms with 90-120 days credits.

**Standard cargo size:** A typical full bulk truck load size into NWE is 20-25 tonnes and the slabstock flexible polyol range takes into account average to small volume consumers, who typically purchase a few thousand tonnes per year to around 10,000 tonnes year. US assessments are based on typical railcar and tank truck volumes of 180,000-190,000 lbs in the case of railcars, and approximately 46,000 lbs for tank trucks. In Asia, the typical cargo sizes range between 17-400 tonnes, depending on whether they are drummed or bulk lots.

One Full Container Load (FCL) contains 80 drums (200-210 kilogrammes/drum).

Flexible slabstock DEL China (USD/MT) and DEL E China (CNY/MT) prices reflect bulk cargoes. Flexible slabstock CFR SE Asia assessments at the high end of the range represent drummed cargoes while the low end depict bulk cargoes. All other assessments in the Asia report are assessed for drummed cargoes.

In the Middle East, prices are for drummed and bulk polyether polyols. The CFR Middle East assessments for flexible and rigid polyols are based on 1-25 containers.



Bulk cargoes are discussed in flexi bags and iso/road tankers of 20-30 tonnes per bag/tanker. The CFR Middle East assessment is based on 20-500 tonnes.

**Assessment basis:** The European assessment is based on the monthly delta movement for freely negotiated business. It reflects full bulk, pre-discounted monthly values only, and represents the final settled price for that month. The price range includes monthly transactions reported as physical deals 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 be adjusted based on the majority market sentiment. When applicable, business concluded in the Mediterranean, Scandinavia, and central Europe is quoted in the body of the European report text.

For the Asia-Pacific report, information is gathered throughout the week from market participants. The published prices do not include discounts. Certain prices may be excluded from the range if they have been negotiated in unusual circumstances, or if special conditions are thought to apply.

Because of limited confirmation on actual price levels, the price range for flexible slabstock (Bulk) DEL China is assessed based on a combination of deals, bids and offers heard, majority market sentiment, and netback of domestic prices in south China. The DEL China assessment includes delivery cost and excludes VAT/duty.

The price ranges for flexible slabstock CFR SE Asia and CFR India are assessed based on a combination of deals, bids and offers heard on bulk and drummed basis, as well as majority market sentiment.

The price range for high resilience, rigid and 43-45% polymer polyols CFR SE Asia is assessed based on a combination of deals, bids and offers heard on drummed basis, as well as majority market sentiment.

For the US report, information is gathered throughout the week from some suppliers, consumers, distributors and other market players. The published prices do not include discounts for volume or customer/contract status. The US report also includes assessments of polyether polyol prices imported into Latin America.

The ICIS assessment for US formula-based prices of polyether polyols are based on feedstocks and value into polyether polyols.

Because of limited confirmation on actual price levels, the assessments reflect the editor's best judgment using traced transactions, news on the supply/demand balance, export/import information, contract price negotiations and general sentiment for price direction, in addition to arbitrages to and from





other regions and retail sales. The contract quote reflects price delta movements from the previous settlement.

The CFR Middle East assessments reflect deals and discussions into the Gulf Cooperation Council (GCC) – Saudi Arabia, United Arab Emirates, Kuwait, Bahrain, Oman and Qatar – and the East Mediterranean, which includes Jordan, Syria, Lebanon, Palestine and Israel.

Participants concluding deals and discussions on DEL basis will be asked for the equivalent CFR Middle East price.

Certain prices may be excluded from the range if they had been negotiated in unusual circumstances, or if special conditions apply.

The Middle East flexible polyether polyols market is largely supplied by European and South Korean suppliers. Chinese origin material is supplied less frequently and usually with credit terms outside the methodology requirements. Indications from China origin suppliers may be excluded if the prices are deemed as unrepresentative of the wider market by industry players.

The market for rigid polyether polyols in the Middle East is less liquid than the one for flexible polyether polyols. Middle East buyers of rigid polyether polyols are predominantly based in the GCC region.

Deals into Iran are included in the text but are not reflected in the CFR Middle East assessments because the payment terms fall outside the methodology requirements.

Discussions for drummed and bulk polymer polyols of various formulations in the Middle East and Africa region, may also be included in the text. They are mainly used as reactants to reinforce the compression strength of the resultant foam product.

Deals and discussions in Africa are included in the text of the report, but not in the assessment. Western Africa covers main ports in Mauritania, Senegal, The Gambia, Guinea-Bissau, Guinea, Sierra Leone, Liberia, Côte d'Ivoire, Ghana, Togo, Benin and Nigeria. Eastern Africa covers main ports in Eritrea, Djibouti, Somalia, Kenya and Tanzania. Northern Africa covers main ports in Morocco, Algeria, Tunisia, Libya, Egypt and Sudan. Southern Africa covers main ports in Namibia, Mozambique and South Africa.

**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.

## 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 Polyols 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 polyols 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 contacts them).
- Where information is not validated by the source (i.e. rumour) please indicate as such.

### **Delivery locations for price assessments**

Locations for ICIS polyols 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. For crude market assessments, this is done by the daily information gathering and verification process carried out by reporters, whereby market transaction, bid and offer information is confirmed and verified by multiple sources.



In assessing polyols 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**

Polyols in all regions is generally traded in US dollars/tonne, cents/lb or euros/tonne and therefore all price assessments are quoted on these bases.

Typical credit terms for polyols 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:

<b>NWE</b>	mainland Northwest Europe (N. France, N. Germany, Benelux)
<b>Med</b>	Southern France, Spain, Italy
<b>NE Asia</b>	Taiwan, Korea, Japan, China
<b>SE Asia</b>	Singapore, Philippines, Indonesia, Malaysia, Thailand, Vietnam
<b>West Asia</b>	Pakistan, India
<b>East Asia</b>	NE Asia & SE Asia
<b>GCC</b>	Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, UAE
<b>E. Med</b>	Greece, Israel, Egypt, Syria, Jordan, Lebanon
<b>FSU</b>	Former Soviet Union: Russia, Ukraine, Belarus, Uzbekistan, Kazakhstan
<b>USG</b>	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](http://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.