



# Asian Aromatics Daily Price Assessment Methodology

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## Overview

This statement of methodology reflects fundamental principles that form the foundation of IHS Markit **Daily Asia Aromatics Report**. It includes detailed information on process, data collection, terms and conditions of price acceptance and product specifications.

The overarching goal of IHS Markit daily chemical price assessments is to provide market participants with a **trusted and independent benchmark**. IHS Markit has no stake in any commodity transactions, is not funded by oil and chemical industry initiatives, and strictly adheres to antitrust guidelines determined by independent legal counsel.

As part of the price assessment process, IHS Markit chemical market analysts are required to exercise best judgment and **adherence to the methodology** so as to ensure the reliability of the data and marker compilation process.

The methodology is continually evolving to reflect changing market realities and IHS Chemical takes full responsibility for keeping this statement current.

The IHS Chemical Asia Aromatics Daily service lists Asia daily spot market price assessments for the following aromatics markets:

- **Benzene FOB Korea (ASTM D-2359)**
- **Benzene China Domestic (ASTM D-2359)**
- **Mixed Xylenes FOB Korea (ASTM D-843 Max EB content 18%)**
- **Paraxylene CFR China (ASTM D2360 99.7% purity)**
- **Styrene Monomer CFR China (ASTM D-2827 99.7% purity)**
- **Styrene Monomer China Domestic (ASTM D-2827 99.7% purity)**
- **Toluene FOB Korea (Nitration grade ASTM D-841 99.5% purity)**

All price assessments are subject to compliance with standard trading conditions with regard to **quality, parcel size, loading/delivery ports, laycans and credit terms** as determined by standard market conventions. For IHS Markit standard trading conditions and criteria please refer to the *Methodology Product table*.

Product	Daily	Weekly	Monthly	Currency	Type	Basis	Location	Rollover date	Assessment Dates	Cargo Size	Unit	Quality	Ports	Credit terms	Calculation / Assessment
Benzene Laycan 1	x			USD	Spot	FOB	Korea	On 1st or 16th of current month (M1)	From first to last day of said laycan.	3,000	MT	ASTM D-2359	Yeosu, Ulsan, Daesan, Incheon	LC at sight	Outlined in APAC Daily Aromatics Methodology Document
Benzene Laycan 2	x			USD	Spot	FOB	Korea	16th of current month (M1) or 1st of next month (M2) if Laycan 1 starts on the 16th of current month.	From first to last day of said laycan.	3,000	MT	ASTM D-2359	Yeosu, Ulsan, Daesan, Incheon	LC at sight	Outlined in APAC Daily Aromatics Methodology Document
Benzene Laycan 3	x			USD	Spot	FOB	Korea	1st or 16th of the month two weeks after Laycan 2	From first to last day of said laycan.	3,000	MT	ASTM D-2359	Yeosu, Ulsan, Daesan, Incheon	LC at sight	Outlined in APAC Daily Aromatics Methodology Document
Benzene Laycan 4	x			USD	Spot	FOB	Korea	1st or 16th of the month two weeks after Laycan 3	From first to last day of said laycan.	3,000	MT	ASTM D-2359	Yeosu, Ulsan, Daesan, Incheon	LC at sight	Outlined in APAC Daily Aromatics Methodology Document
Benzene Laycan 5	x			USD	Spot	FOB	Korea	1st or 16th of the month two weeks after Laycan 4	From first to last day of said laycan.	3,000	MT	ASTM D-2359	Yeosu, Ulsan, Daesan, Incheon	LC at sight	Outlined in APAC Daily Aromatics Methodology Document
Benzene Laycan 6	x			USD	Spot	FOB	Korea	1st or 16th of the month two weeks after Laycan 5	From first to last day of said laycan.	3,000	MT	ASTM D-2359	Yeosu, Ulsan, Daesan, Incheon	LC at sight	Outlined in APAC Daily Aromatics Methodology Document
Benzene Marker Price	x	x	x	USD	Spot	FOB	Korea		N/A						Average of L/H for laycans 2 and 3
Benzene Daily rolling Spot Avg	x		x	USD	Spot	FOB	Korea	1st day of current month			MT	ASTM D-2359			Average of 'Daily Marker Price' for all publications within given calendar month

Product	Daily	Weekly	Monthly	Currency	Type	Basis	Location	Rollover date	Assessment Dates	Cargo Size	Unit	Quality	Ports	Credit terms	Calculation / Assessment
Benzene China domestic price	x	x	x	YUAN	Spot	ex-tank	E. China	Daily	3-10 days from assessment date	50-100 MT		ASTM D-2359	Ningbo, Jiangyin, Changzhou, Taizhou, Zhangjiagang	Cash payment LC at sight	Outlined in APAC Daily Aromatics Methodology Document
Benzene Daily China domestic price rolling Spot Avg	x		x	YUAN	Spot	ex-tank	E. China	1st day of current month		50-100 MT		ASTM D-2359			Average of daily assessments from first to last trading day of current month
Benzene Import Parity	x	x	x	USD	Spot	ex-tank	E. China	Daily		50-100 MT		ASTM D-2359			Calculation of domestic Yuan value to USD based on daily PBOC forex rate after deducting Yuan 100 (handling fee), 2% import duty and 17% VAT
Benzene Daily China Import Parity rolling Spot Avg	x		x	USD	Spot	ex-tank	E. China	1st day of current month		50-100 MT		ASTM D-2359			Average of daily import parity calculation from first to last trading day of current month
Toluene Laycan 1	x			USD	Spot	FOB	Korea	1st or 16th of current month (M1)	From first to last day of said laycan.	2,000 MT		Nitration grade ASTM D-841 (99.5% purity)	Yeosu, Ulsan, Daesan	LC at sight	Outlined in APAC Daily Aromatics Methodology Document
Toluene Laycan 2	x			USD	Spot	FOB	Korea	16th of current month (M1) or 1st of next month (M2) if Laycan 1 starts on the 16th of current month.	From first to last day of said laycan.	2,000 MT		Nitration grade ASTM D-841 (99.5% purity)	Yeosu, Ulsan, Daesan	LC at sight	Outlined in APAC Daily Aromatics Methodology Document
Toluene Laycan 3	x			USD	Spot	FOB	Korea	1st or 16th of the month two weeks after Laycan 2	From first to last day of said laycan.	2,000 MT		Nitration grade ASTM D-841 (99.5% purity)	Yeosu, Ulsan, Daesan	LC at sight	Outlined in APAC Daily Aromatics Methodology Document
Toluene Laycan 4	x			USD	Spot	FOB	Korea	1st or 16th of the month two weeks after Laycan 3	From first to last day of said laycan.	2,000 MT		Nitration grade ASTM D-841 (99.5% purity)	Yeosu, Ulsan, Daesan	LC at sight	Outlined in APAC Daily Aromatics Methodology Document
Toluene Marker Price	x	x	x	USD	Spot	FOB	Korea		N/A						Average of L/H for laycans 2 and 3
Toluene Daily rolling Spot Avg	x		x	USD	Spot	FOB	Korea	1st day of current month		2,000 MT		Nitration grade ASTM D-841 (99.5% purity)			Average of 'Daily Marker Price' for all publications within given calendar month
Toluene China domestic price	x	x	x	YUAN	Spot	ex-tank	E. China	Daily	3-10 days from assessment date	50-100 MT		Nitration grade ASTM D-841 (99.5% purity)	Dongguan, Jiangyin, Nanjing, Nansha, Ningbo, Shanghai, Zhangjiagang, Zhenjiang	Cash payment LC at sight	Outlined in APAC Daily Aromatics Methodology Document
Toluene Daily China domestic price rolling Spot Avg	x		x	YUAN	Spot	ex-tank	E. China	1st day of current month		50-100 MT		Nitration grade ASTM D-841 (99.5% purity)			Average of daily assessments from first to last trading day of current month
Toluene Import Parity	x	x	x	USD	Spot	ex-tank	E. China	Daily		50-100 MT		Nitration grade ASTM D-841 (99.5% purity)			Calculation of domestic Yuan value to USD based on daily PBOC forex rate after deducting Yuan 100 (handling fee), 2% import duty and 17% VAT

Product	Daily	Weekly	Monthly	Currency	Type	Basis	Location	Rollover date	Assessment Dates	Cargo Size	Unit	Quality	Ports	Credit terms	Calculation / Assessment
Toluene Daily China Import Parity rolling Spot Avg	x		x	USD	Spot	ex-tank	E. China	1st day of current month		50-100 MT		Nitration grade ASTM D-841 (99.5% purity)			Average of daily import parity calculation from first to last trading day of current month
Isomer MX Laycan 1	x			USD	Spot	FOB	Korea	1st or 16th of current month (M1)	From first to last day of said laycan.	3,000 MT		ASTM D-843 (Max EB content 18%)			Outlined in APAC Daily Aromatics Methodology Document
Isomer MX Laycan 2	x			USD	Spot	FOB	Korea	16th of current month (M1) or 1st of next month (M2) if Laycan 1 starts on the 16th of current month.	From first to last day of said laycan.	3,000 MT		ASTM D-843 (Max EB content 18%)	Ulsan, Daesan, Yeosu, Incheon	LC at sight	Outlined in APAC Daily Aromatics Methodology Document
Isomer MX Laycan 3	x			USD	Spot	FOB	Korea	1st or 16th of the month two weeks after Laycan 2	From first to last day of said laycan.	3,000 MT		ASTM D-843 (Max EB content 18%)	Ulsan, Daesan, Yeosu, Incheon	LC at sight	Outlined in APAC Daily Aromatics Methodology Document
Isomer MX Laycan 4	x			USD	Spot	FOB	Korea	1st or 16th of the month two weeks after Laycan 3	From first to last day of said laycan.	3,000 MT		ASTM D-843 (Max EB content 18%)	Ulsan, Daesan, Yeosu, Incheon	LC at sight	Outlined in APAC Daily Aromatics Methodology Document
Isomer MX Marker Price	x	x	x	USD	Spot	FOB	Korea		N/A						Average of Laycans 2 and 3
Isomer MX Daily rolling Spot Avg	x		x	USD	Spot	FOB	Korea	1st day of current month		3,000 MT		ASTM D-843 (Max EB content 18%)			Average of 'Daily Marker Price' for all publications within given calendar month
Paraxylene Laycan 1	x			USD	Spot	CFR	China	1st or 16th of current month (M1)	From first to last day of said laycan.	5,000 MT		ASTM D2360 (99.7% purity)	Ningbo, Shanghai, Zhuhai, Jiangyin, Lianyungang, Xiamen, Dalian	LC 30 days for Asia origin LC 60 days for India/Mid-east LC 90 days for deep sea	Outlined in APAC Daily Aromatics Methodology Document
Paraxylene Laycan 2	x			USD	Spot	CFR	China	16th of current month (M1) or 1st of next month (M2) if Laycan 1 starts on the 16th of current month.	From first to last day of said laycan.	5,000 MT		ASTM D2360 (99.7% purity)	Ningbo, Shanghai, Zhuhai, Jiangyin, Lianyungang, Xiamen, Dalian	LC 30 days for Asia origin LC 60 days for India/Mid-east LC 90 days for deep sea	Outlined in APAC Daily Aromatics Methodology Document
Paraxylene Laycan 3	x			USD	Spot	CFR	China	1st or 16th of the month two weeks after Laycan 2	From first to last day of said laycan.	5,000 MT		ASTM D2360 (99.7% purity)	Ningbo, Shanghai, Zhuhai, Jiangyin, Lianyungang, Xiamen, Dalian	LC 30 days for Asia origin LC 60 days for India/Mid-east LC 90 days for deep sea	Outlined in APAC Daily Aromatics Methodology Document
Paraxylene Laycan 4	x			USD	Spot	CFR	China	1st or 16th of the month two weeks after Laycan 3	From first to last day of said laycan.	5,000 MT		ASTM D2360 (99.7% purity)	Ningbo, Shanghai, Zhuhai, Jiangyin, Lianyungang, Xiamen, Dalian	LC 30 days for Asia origin LC 60 days for India/Mid-east LC 90 days for deep sea	Outlined in APAC Daily Aromatics Methodology Document
Paraxylene Laycan 5	x			USD	Spot	CFR	China	1st or 16th of the month two weeks after Laycan 4	From first to last day of said laycan.	5,000 MT		ASTM D2360 (99.7% purity)	Ningbo, Shanghai, Zhuhai, Jiangyin, Lianyungang, Xiamen, Dalian	LC 30 days for Asia origin LC 60 days for India/Mid-east LC 90 days for deep sea	Outlined in APAC Daily Aromatics Methodology Document

Product	Daily	Weekly	Monthly	Currency	Type	Basis	Location	Rollover date	Assessment Dates	Cargo Size	Unit	Quality	Ports	Credit terms	Calculation / Assessment
Paraxylene Laycan 6	x			USD	Spot	CFR	China	1st or 16th of the month two weeks after Laycan 5	From first to last day of said laycan.	5,000 MT		ASTM D2360 (99.7% purity)	Ningbo, Shanghai, Zhuhai, Jiangyin, Lianyungang, Xiamen, Dalian	LC 30 days for Asia origin LC 60 days for India/Mid-east LC 90 days for deep sea	Outlined in APAC Daily Aromatics Methodology Document
Paraxylene Marker Price	x	x	x	USD	Spot	CFR	China		N/A						Average of L/H for laycans 2 and 3
PX Daily rolling Spot Average	x		x	USD	Spot	CFR	China	1st day of current month		5,000 MT		ASTM D2360 (99.7% purity)			Average of 'Daily Marker Price' for all publications within given calendar month
Styrene Laycan 1	x			USD	Spot	CFR	China	1st or 16th of current month (M1)	From first to last day of said laycan.	2,000 MT		ASTM D-2827 (99.7% purity)	Ningbo, Jiangyin, Zhangjianggang, Nantong	LC 90 days	Outlined in APAC Daily Aromatics Methodology Document
Styrene Laycan 2	x			USD	Spot	CFR	China	16th of current month (M1) or 1st of next month (M2) if Laycan 1 starts on the 16th of current month.	From first to last day of said laycan.	2,000 MT		ASTM D-2827 (99.7% purity)	Ningbo, Jiangyin, Zhangjianggang, Nantong	LC 90 days	Outlined in APAC Daily Aromatics Methodology Document
Styrene Laycan 3	x			USD	Spot	CFR	China	1st or 16th of the month two weeks after Laycan 2	From first to last day of said laycan.	2,000 MT		ASTM D-2827 (99.7% purity)	Ningbo, Jiangyin, Zhangjianggang, Nantong	LC 90 days	Outlined in APAC Daily Aromatics Methodology Document
Styrene Laycan 4	x			USD	Spot	CFR	China	1st or 16th of the month two weeks after Laycan 3	From first to last day of said laycan.	2,000 MT		ASTM D-2827 (99.7% purity)	Ningbo, Jiangyin, Zhangjianggang, Nantong	LC 90 days	Outlined in APAC Daily Aromatics Methodology Document
Styrene Laycan 5	x			USD	Spot	CFR	China	1st or 16th of the month two weeks after Laycan 4	From first to last day of said laycan.	2,000 MT		ASTM D-2827 (99.7% purity)	Ningbo, Jiangyin, Zhangjianggang, Nantong	LC 90 days	Outlined in APAC Daily Aromatics Methodology Document
Styrene Laycan 6	x			USD	Spot	CFR	China	1st or 16th of the month two weeks after Laycan 5	From first to last day of said laycan.	2,000 MT		ASTM D-2827 (99.7% purity)	Ningbo, Jiangyin, Zhangjianggang, Nantong	LC 90 days	Outlined in APAC Daily Aromatics Methodology Document
Styrene Marker Price	x	x	x	USD	Spot	CFR	China		N/A						Average of L/H for laycans 2 and 3
Styrene Daily rolling Spot Average	x		x	USD	Spot	CFR	China	1st day of current month		2,000 MT		ASTM D-2827 (99.7% purity)			Average of 'Daily Marker Price' for all publications within given calendar month
Styrene China domestic price	x	x	x	YUAN	Spot	ex-tank	E. China	Daily	3-10 days from assessment date	50-100 MT		ASTM D-2827 (99.7% purity)	Ningbo, Jiangyin, Zhangjianggang, Nantong	Cash payment LC at sight	Outlined in APAC Daily Aromatics Methodology Document
Styrene Daily China domestic price rolling Spot Avg	x		x	YUAN	Spot	ex-tank	E. China	1st day of current month		50-100 MT		ASTM D-2827 (99.7% purity)			Average of daily assessments from first to last trading day of current month
Styrene Import Parity	x	x	x	USD	Spot	ex-tank	E. China	Daily		50-100 MT		ASTM D-2827 (99.7% purity)			Calculation of domestic Yuan value to USD based on daily PBOC forex rate after deducting Yuan 100 (handling fee), 2% import duty and 17% VAT
Styrene Daily China Import Parity rolling Spot Avg	x		x	USD	Spot	ex-tank	E. China	1st day of current month		50-100 MT		ASTM D-2827 (99.7% purity)			Average of daily import parity calculation from first to last trading day of current month

## Daily Price Discovery Process

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The Asian price assessment methodology seeks to capture full day transactions, bids and offers for spot market **benzene, mixed xylenes, paraxylene, styrene monomer and toluene**. IHS Markit chemical market analysts will proactively poll market participants via electronic instant messaging (such as ICE Chat, Eikon, Yahoo), email, telephone or face-to-face conversation in order to discover price data throughout the standard trading day (9am-5pm Singapore time).

Analysts will always attempt to collect data from a broad cross section of the Asian aromatics sector, including producers, consumers, traders and brokers, so that IHS Markit is not reliant on one source for data.

In order to meet publication deadline, IHS Markit reserves the right not to include transactions received **after 5pm** Singapore time for consideration in the day's final price assessment process or the revision process. Information received beyond this time will be used at the analyst's discretion only.

Market participants are encouraged to report transactions, **real-time** bids and offers and live market bid-offer ranges directly to IHS Markit. The expressions of bids and offers are regarded as open and executable to the **market at large**. IHS Markit will attempt to gather as much price information from the marketplace as possible and from as many sources as it can so that data is not being provided from any one source. IHS Markit reserves the right to **re-publish** the market information collected, and closely track the evolution of indicative values throughout the business day. All data collected is **time-stamped** and **archived** for review.

## Daily Price Assessment Laycans

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IHS Markit tracks market activity throughout the Asia Pacific business day to derive an assessment of spot market prices levels for specified delivery/loading laycans as outlined in the *Methodology Product table*.

## Price Assessment Criteria

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IHS Markit prices are assessed based on the range of confirmed physical cargoes transacted and reported during the Asia Pacific working day (9am-5pm Singapore time) for the relevant assessment laycans. Where only one deal has been confirmed, that will form the price assessment range for the day. Where there is a range of deals for the same month, the lowest and highest traded values will form the range. *On occasions where there is extreme price volatility or severe illiquidity in petrochemical markets, IHS Markit will assess prices at the analysts' discretion as opposed to traded value or last heard notional ranges.*

Highest priority will be given to transactions that are **transparent** and open to any **reputable counterparty** with proper financial and logistical resources. For a deal to be used in the price assessment, it must be confirmed by a source that has been vetted and deemed an approved market source for the product in question by IHS Markit. A good faith attempt will always be made to "confirm" both sides of any transaction (meaning that the buyer and seller in the transaction have been identified and corroborate the price and terms of the sale). Deals of all types that are confirmed to IHS Markit with the stipulation that they are not for wider publication will not be used within the price assessment.

All transactions are to be "physical" product; the sale of "paper" product (meaning a financial arrangement where no physical volume is expected or required to be exchanged) will not be included in the price range.

Any transaction that has logistic restrictions, quality or specification issues, different currency, load size, shipping terms to those specified in the *methodology product table* or any other special considerations will not be used to determine the posted range. Bids and offers that are restrictive to select buyer or seller will be ranked lower as compared to bids and offers that are transparent and open to the market at large.

All buy/sell transactions; time and/or location swaps; any transactions having options which could meaningfully impact the commercial value; will be ignored if discovered, regardless of the price assigned.

If a transaction appears to be "out of market" (meaning significantly different in price than would be expected based on other recently confirmed price points), IHS Markit may elect to ignore the transaction following review of the data. IHS Markit will also review prior expressions of buying and selling interests to examine the circumstances leading to the trade in order to determine the **integrity** of the transaction.

Transactions must be conducted **at arm's length** whereby the buyer and seller are not related in any way by means of share ownership or affiliation in each other's company.

All **bona fide** transactions can be considered for index compilation, regardless of whether it is concluded by a natural buyer (end-user), seller (producer) or trader. If a transaction is identified by IHS Markit or market participants as **anomalous or suspicious**, it will be excluded from the assessment process until the situation can be clarified. This can include **repetitive transactions** between two parties within a single trading session, whereby the parties alternately buy and sell from each other. If it is verified that the transaction is above board by the **next business day**, IHS Markit will retroactively revise its marker assessment to include the deal.

On days when there have been no confirmed transactions a "notional" price will be posted. A notional price reflects the consultant's best estimate of price or price range where a transaction could have occurred between an interested buyer and interested seller. The main guide for assessment will be prevailing bids and offers, if any have been reported. Highest priority will be given to bids and offers that are **transparent** and open to any **reputable counterparty** with proper financial and logistical resources.

Both **repetitive and incremental** bids and offers that conform to standard market conventions, as well as **retracted** bids and offers, will be included for consideration in the IHS Markit price assessment process.

Notional postings are indicated by the letter "n" located in the right hand column of the price range in question.

## Illiquid Markets

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IHS Markit recognizes that petrochemical markets can suffer from periods of illiquidity. In the absence of firm bids, offers and transactions, IHS Markit will still poll market participants for expressions of interest to trade. Due to **tight correlation** between certain markets, IHS Markit also tracks **spread values** in upstream feedstock, downstream products, co-products and alternative products. Other factors that can influence prices, such as supply/demand data, macroeconomic issues and geopolitics will also be filtered for market clarity. Accordingly, in certain assessments where **insufficient market data** exists, IHS Markit analysts will exercise best judgment to **quantify** these **relative values** in the process of compiling the price index.

In the event that certain markets are shut because of public holidays, IHS Markit analysts may elect to **retain** the marker values published on the previous trading day.



## Price Assessment Revisions

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Daily price postings are open to revision if additional information becomes available after the close of the business day or outside standard working hours, provided the new information meets the deal assessment/confirmation criteria.

For a revision to be made based on new information being provided after initial assessment, a deal must be confirmed by the buyer or seller involved and IHS Markit must be satisfied that the deal was fully representative of market conditions at the time of transaction. Data used for price revisions must be reported no later than the close of business the next business day.

All postings during the current week are "locked down" at the close of business each Thursday to align with the IHS Markit Global Aromatics Weekly report. The weekly aromatics report captures the trading week from Friday to Thursday and uses daily postings to calculate weekly averages. As a result all daily price postings are locked down on a Thursday and no further revisions can be made for the relevant reporting week.

Changes or corrections will not necessarily be made if a transaction was made under conditions of being Private & Confidential (P&C), but the sale was later disclosed following the publication date of the report. IHS Markit always attempts to be fully diligent in their price discovery and confirmation process and will make every reasonable effort to survey the market. However, prices that cannot be confirmed per the above standards before publication will not necessitate a correction.

Corrections or changes to prices may also be initiated if the price range was reported incorrectly due to clerical error or if the price and/or terms were misrepresented or misunderstood. In some circumstances the daily report will be re-issued.

Revised postings are indicated by a red letter "r" located in the right hand column of the price range in question.

## Price Assessment Disputes

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Every spot price editor at IHS Markit understands that his or her top priority is calling market assessments fairly. Our methodologies are crafted after careful consultation with our customers and applied by our editors to ensure maximum transparency and accuracy.

Still, we understand there may be times when spot price customers wish to question, dispute or comment on a price assessment and/or our methodologies. As a valued IHS Markit spot price customer, you have the right to:

- a prompt reply to any inquiry regarding price assessments and/or methodology within two trading days
- a full consideration by senior IHS Markit spot market personnel of any request for a correction or adjustment of a price assessment as well as any suggested changes to spot price methodology and complete confidentiality.

In the event of an **assessment dispute**, the disputing party should inform IHS Markit of their complaint by the following business day via telephone call, email or instant messaging platforms and all complaints will be acknowledged in writing within one business day. The party should, within one business day, supply IHS Markit with **evidence** of mishandling and/or misinformation of material data that had directly resulted in the distortion of the marker assessment.

The appropriate IHS Markit personnel will reply to complaints with two (2) spot trading days via email. This reply may or may not be a resolution of the complaint but it will acknowledge receipt of the complaint and assure the complainant that he or she can expect an answer in a timely manner.

Upon review and verification of the data, and IHS Markit may then publish a price revision. IHS Markit guarantees complete **confidentiality** of the data provider in the price dispute.

## Daily Marker Price

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A daily 'marker' price will be published in the Asia market daily service aromatics report for benzene, mixed xylenes, paraxylene, styrene monomer and toluene. The marker is a calculated price as opposed to an assessment and is calculated for both Asian-wide market price and the China Domestic Market. The marker price is calculated using a simple arithmetical average of the low and high assessments for **laycan 2 and laycan 3** for all products.

## Daily Rolling Monthly Spot Averages

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The daily rolling monthly spot price average indexes are only listed in the Asia market daily service aromatics report. Monthly rolling spot price averages are calculated for benzene, mixed xylenes, paraxylene, styrene monomer and toluene using a simple arithmetical average of the daily marker price as featured in each daily report for any given calendar month. The current month indexes are re-calculated each day during a month and then locked-down at the end of that month. The cycle then continues for the new month. An eleven month history is also shown.

## China Import Parity Price

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An Import Parity Price will be published alongside the China domestic price on a daily basis. This is a calculated price based on the assessed China domestic price.

The price is derived by the following formula:

*Calculation of domestic Yuan value to USD is based on daily PBOC forex middle rate after deducting Yuan 100 (handling fee), 2% import duty and 17% VAT*

Example: Import parity for RMB5,000 will be:  $(5,000-100)/1.17/1.02/6.9125 = \$594$

## Methodology Review

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IHS Markit price assessment methodology is constantly scrutinized internally for clarity, relevance and comprehensiveness by market analysts and senior analysts across the IHS chemical group. Methodology changes involve a robust polling of the marketplace to ensure all points of view are considered prior to any changes being considered or made.

Internally, all methodologies are reviewed on a quarterly basis, within the IHS Markit 'Market Daily Service' group and records of any proposed methodology change are stated in a central electronic file.

IHS Markit also encourages industry participants to propose improvements or revisions to daily price assessment methodology via e-mail, telephone and instant messaging. Based on the input received, IHS Markit senior leadership within the chemical group will decide whether to accept or reject suggestions made by stakeholders for methodology changes.

Once a spot methodology change is contemplated, IHS Markit will reach out to stakeholders in the form of a formal note delivered via email soliciting feedback on the change.

Feedback may be given via post, email or telephone and the opportunity to comment on any contemplated spot methodology change is open for no less than four (4) weeks and generally not more than six (6) weeks.

In the case of methodology additions, a draft notice is sent out to customers with a deadline for comments set at a maximum of two (2) weeks.

IHS Markit will publish stakeholder comments received with our responses regarding proposed methodology changes on our website and will respect commenter confidentiality when requested.

## About IHS Markit

IHS Markit (Nasdaq: INFO) is a world leader in critical information, analytics and solutions for the major industries and markets that drive economies worldwide. The company delivers next-generation information, analytics and solutions to customers in business, finance and government, improving their operational efficiency and providing deep insights that lead to well-informed, confident decisions. IHS Markit has more than 50,000 key business and government customers, including 85 percent of the Fortune Global 500 and the world's leading financial institutions. Headquartered in London, IHS Markit is committed to sustainable, profitable growth.

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