

KUMHO P&B CHEMICALS, Inc.



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PRODUCT INFORMATION

ISOPROPYL BENZENE
CUMENE

beyond
the best

KUMHO P&B CHEMICALS

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CUMENE

PRODUCT INFORMATION

General

CUMENE is a colorless liquid in the Alkyl aromatic family. It is soluble in non-polar solvents such as alcohol, carbon tetrachloride and ether but insoluble in water. Although cumene is a naturally occurring substance present in coal tar and petroleum, most industrial cumene is synthesized from benzene and propylene. Kumho's CUMENE is produced by the alkylation of Benzene.

IUPAC name : CUMENE

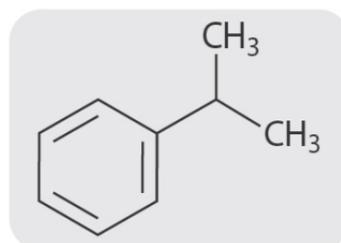
Synonyms : Cumol, Isopropylbenzene, 2-Phenylpropane

Molecular formula : C₉H₁₂

CAS number : 98-82-6

EINECS/ELINCS number : 202-704-5

Package : Iso-tank, Tank lorry, bulk



Sales Specification

Appearance	Clear liquid
Purity, wt. %	99.8 Min.
Color, Pt/Co	20 Max.
Bromide Index, mg/100g	125 Max.
Phenolics, wt.ppm	50 Max.

Uses

Cumene is the parent material in the production of phenol and its co-product acetone. Almost all Cumene is used for captive use to produce phenol and acetone. Cumene hydroperoxide, the intermediate during Cumene process, is commercially available. Cumene hydroperoxide is a colorless to pale yellow liquid chemical used as a polymerization inhibitor particularly in redox systems and to manufacture organic peroxides, primarily Dicumylperoxide, which are used in the manufacture of plastic resins and as initiators in chemical reactions.

Typical Properties

Molecular Weight	120.19	Melting point, °C	-96.9
Appearance	Clear liquid	Solubility in water	Insoluble
Odor	Characteristic	- 25°C, mg/L	61.3
Boiling point, °C	152.4	- 20°C, mg/L	50.0
Flash point, °C	31	Ionization potential	8.75 eV
Autoignition temp, °C	420	Specific gravity(H ₂ O=1)	0.8633
Heat of vaporization@25°C, KJ/mol	45.13		
Vapour pressure@25°C, mmHg	4.5		
Vapour density@25°C, mmHg (air=1)	4.1		

Handling And Storage

Precautions for safe handling

- Avoid contact with incompatible materials.
- Dealing only with a well-ventilated place.
- Do not handle until all safety precautions have been and understood.
- Operators should wear antistatic footwear and clothing.
- Use only static-free tools.

Conditions for safe storage, including any incompatibilities

- Save in cool, dry and well ventilated place.
- Save applicable laws and regulations.
- Avoid direct sunlight
- No open fire
- Prevent static electricity and keep away from combustible materials or heat sources.
- Do not discharge into the environment

Hazards Information

Hazards classification information

- Flammable liquids : Category3
- Acute toxicity (oral) : Category4
- Carcinogenicity : Category2
- Specific target organ toxicity(Single exposure) : Category1
- Specific target organ toxicity(Single exposure) : Category2
- Specific target organ toxicity(Single exposure) : Category3(Narcotic effects)
- Specific target organ toxicity(Single exposure) : Category3(Respiratory tract irritation)
- Specific target organ toxicity(Repeated exposure) : Category1
- Aspiration hazard : Category1
- Chronic aquatic toxicity : Category2
- NFPA : Health : 2, Flammability : 3, Reactivity : 1 grade (0 ~ 4 level)

Human health hazards

- To man
- Causes skin irritation
 - Irritating to eyes
 - Suspected of causing cancer
 - May cause respiratory irritation
 - May be fatal if swallowed and enters airways

Environmental hazards

- To the environment
- Toxic to fish, aquatic invertebrates and algae