

CUMENE

DESCRIPTION

Cumene is obtained through a catalytic alkylation of benzene with propylene. Both raw materials come from crude oil distillation.

IDENTIFICATION

CAS NUMBER:	98-82-8
Nº REACH:	01-2119473983-24-0011
CE NUMBER:	202-704-5

APPLICATION

Nearly all the cumene, produced as a pure compound on an industrial scale, is converted to cumene hydroperoxide, which is an intermediate in the synthesis of other important chemicals such as phenol and acetone. Moreover, it is employed in surfactants, in the production of Propylene Oxide (PO) and in gasoline pool as additive.

TYPICAL PROPERTIES

Property	Unit	Method	Value
Appearance	-	Clear, free suspended material	
Color Pt/Co	Hazen	ASTM D 1209	<10
Melting point	°C		-96
Boiling point	°C		152
Auto-ignition temperature	°C		420
Flash point Closed cup	°C		31°C
Open cup	°C		25°C
Purity	%	Calculated	99,93
Bromine Index	mg/100g	ASTM D 2710	<50
Benzene	ppm	ASTM D 3760	<10
Non-Aromatics	ppm	ASTM D 3760	<150
Toluene	ppm	ASTM D 3761	<10
Density @ 20°C	g/cm ³	ASTM D 4052	0,864
Phenol	ppm	ASTM D 3160	<5
Total Sulphur	ppm	ASTM D 5453	<1

TRANSPORT

Available in tank trucks, rail-tank, vessels and barges.

STORAGE AND HANDLING

Store in accordance with local regulations.

Tank material: Stainless steel 316. Carbon steel with coatings.

Recommended blanketing.

HEALTH AND SAFETY

Put on appropriate personal protective equipment. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest.

Avoid release to the environment. For more information see MSDS.



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