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Identification ¹

CAS Number: 108-95-2

EC Number: 203-632-7

Description

Phenol is the result of splitting cumene hydroperoxide with sulphuric acid. Cumene is obtained through a catalytic alkylation of benzene with propylene using a solid bed catalyst.

Uses

Main use of phenol is the production of BPA (Bisphenol A) intermediate in the manufacture of Polycarbonate and Epoxy Resins. Phenol is also employed to produce caprolactam in Nylon 6 route. Phenolic resins for a variety of applications: Construction, Industry in several topics like insolate, laminates, coatings. Other apps include disinfectant, medicinal products, food additives.

Typical properties

Parameter	Unit	Method	Value	
Appearance	-	ASTMD 4176	Clear liquid without suspended matter	
Odour	-	Organoleptic	Aromatic	
Color Pt/Co	Hazen	ASTM D 1209	≤5	
Melting point	°C	ASTM D 6875	40,8	
Flash point	Closed cup:	°C	-	
	Open cup:	°C	-	
Initial boiling point	°C	-	181,9	
Auto-ignition temperature	°C	-	595	
Water content	(w/w)%	ASTM D 1364	0,01	
Purity	(w/w)%	ASTM D 6142	>99,9	
Density	@ 20°C	g/cm ³	ASTM D 4052	1,071
2-mbf	mg/kg	ASTM D 6142	12	
Mesityl oxide	mg/kg	ASTM D 6142	<1	
Carbonyls	mg/kg	ASTM E 411	5	
Explosive limit (in air)	% v/v		1,5	

*All the data provided does not imply the replacement of the Moeve Specification Sheets or Safety Sheets

¹ For the latest updates on these numbers, please consult the safety data sheet available at: chemicals.moeveglobal.com

Transport

Available in drums, 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.

Liquid: 50 °C up to 60 °C.

Health and safety

Avoid exposure, contact with eyes, skin and clothing. Avoid breathing dust. For more safety considerations, refer to the Safety Data Sheet.

For more info, please contact us: techsupport@moevechemicals.com

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