

# Galaxy Colour Chem

Industrial Chemical Trading

Rajkot, Gujarat | Est. 2001 | Commissioner & PESO Licensed

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PRODUCT DATASHEET

## Benzene

C<sub>6</sub>H<sub>6</sub> | CAS 71-43-2

### Specification Table

Test Description	Min	Max	Unit	Test Method
Appearance	Clear colourless liquid	—	—	Visual
Purity	99.9	—	%(w/w)	Gas Chromatography
Toluene	—	0.05	%(w/w)	ASTM D3797
Non Aromatics	—	0.05	%(w/w)	ASTM D3797
Thiophene	—	1	mg/kg	ASTM D4735
Total Sulphur	—	1	mg/kg	ASTM D4045
Water	—	50	mg/kg	ASTM E203
Density @ 20°C	0.877	0.880	Kg/l	ASTM D4052
Colour (Saybolt)	+30	—	—	ASTM D156
Distillation IBP	79	—	°C	ASTM D850
Distillation DP	—	80.5	°C	ASTM D850
Flash Point	-11	—	°C	ASTM D56

Note: Physical properties are not monitored constantly. Values represent standard specification limits.

### Applications

<b>Chemical Intermediate</b> Primary feedstock for ethylbenzene, cumene, cyclohexane, and nitrobenzene production.	<b>Styrene Production</b> Precursor to styrene via ethylbenzene for polystyrene and ABS resin manufacture.
<b>Nylon &amp; Fibre</b> Via cyclohexane, feedstock for caprolactam (Nylon 6) and adipic acid (Nylon 6,6).	<b>Phenol Production</b> Feedstock for cumene-to-phenol process yielding phenol and acetone.
<b>Rubber Industry</b> Solvent and chemical intermediate in synthetic rubber and neoprene production.	<b>Dyes &amp; Pigments</b> Starting material for aniline, nitrobenzene, and synthetic dye intermediates.
<b>Detergents</b> Feedstock for linear alkylbenzene (LAB) used in biodegradable detergent production.	<b>Pharmaceuticals</b> Chemical intermediate and reaction solvent in specialty pharmaceutical synthesis.