



Phenol

Product Data Sheet – typical properties and specifications

Phenol is an organic chemical used to produce a wide variety of chemical intermediates. The primary chemical intermediates include phenolic resins, bisphenol A, caprolactam, alkyl phenols, and adipic acid.

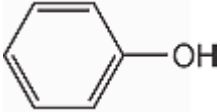
Phenol is also referred to as carbolic acid and monohydroxybenzene, and is found in numerous small volume applications. Some of these applications are plasticizers, synthetic cresols and xylenols, herbicides, wood preservative, pharmaceuticals, and dyes.

Health and safety information and safe handling suggestions are available through the appropriate Safety Data Sheet (SDS).

Specifications

Characteristic	Sales Specifications	Test Method
Appearance (molten)	Clear water white liquid	Visual
Appearance (solid)	White crystalline mass	Visual
Color, APHA (molten)	20 Max	D1686-96 (2003)el
Purity, Wt. %	99.6 Min	D6142
Water, %	0.1 Max	D1631-99
Solidification Point, °C	40.6 Min	D1493-97

Typical Physical Properties

Typical Properties	Typical Value
Structural Formula	
Empirical Formula	C ₆ H ₅ OH
Molecular Weight	94.11 g/mol
Physical State	Liquid or Solid
Color	Colorless to light pink solid, or white molten
Odor	Characteristically sweet
Flammable Limits (by volume in air)	Lower: 1.5% Upper: 8.6%
Flash Point	Closed cup - 79 °C (174.2 °F) Open cup - 85 °C (185 °F)
Autoignition Temperature	715°C (1319°F)
Boiling Point (760 mm)	181.8°C (359.2 °F)
Dielectric Constant 48°C	9.9
Melting Point	40.9 °C (105.6 °F)
Reactivity	Stable
Specific Gravity, solid (25/4°F)	1.071
liquid (41/4°F)	1.058
Vapor Density (Air = 1.0)	3.24
Viscosity at 45°C (113°F)	3.8 cSt
at 60°C (140°F)	2.52 cSt
at 80°C (176°F)	1.597 cSt
Threshold Limit Value (8 hours)	5 ppm
Threshold (odor)	0.3 ppm
Weight per gallon at 50°C (122°F)	8.75 lb

For more information on phenol or other chemicals in our product line, call us today at (713) 658-9000.

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