


Specification

Phenol water-saturated, non-stabilized

A1578

Physical Description:	Liquid
Product Code:	A1578
Product Name:	Phenol water-saturated, non-stabilized
Short Description:	additional product description: without 0.1 % 8-Hydroxyquinoline
Specifications:	<p>Assay (titr.): approx. 75 %</p> <p>pH (20°C): 4 - 5</p> <p>Heavy metals: max. 0.0005 %</p> <p>Water (K.F.): approx. 25 %</p> <p>Stability: approx. 12 months</p>
Hazard pictograms	
UN:	2821
Class/PG:	6.1/II
ADR:	6.1/II
IMDG:	6.1/II
IATA:	6.1/II
WGK:	2
Storage:	2-8°C

AppliChem GmbH

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	protected from light under argon
Signal Word:	Danger
GHS Symbols:	GHS05 GHS06 GHS08 GHS09
H Phrases:	H301+H311+H331 H314 H341 H373 H411
P Phrases:	P280 P301+P330+P331 P302+P352 P305+P351+P338 P309 P310
CAS:	108-95-2
EINECS:	203-632-7
CS:	29071100
Index Nr.:	604-001-00-2
Comment	RNA-containing solutions are extracted with water-saturated, acidic phenol. At low pH values (pH 5.0 - 6.0), DNA is selectively retarded in the phenol phase, while RNA stays in the aqueous phase. Water-saturated, acidic phenol is quite stable. The addition of 8-hydroxyquinoline increases stability and colors the phenol yellow, so that the separation of the aqueous and organic phases is facilitated. Besides, 8-hydroxyquinoline is an RNase inhibitor. If SDS is a component of the RNA-containing solution, do not work at temperatures below 10°C to prevent the precipitation of the surfactant.

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Bibliography

(1)Wallace, D.M. (1987) *Methods Enzymol.* **152**, 33-41Large- and small-scale Phenol extractions.

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