

## Toluene AnalR NORMAPUR® ACS, Reag. Ph. Eur. analytical reagent



Danger

**CAS 108-88-3** UN: 1294  
**C<sub>6</sub>H<sub>5</sub>CH<sub>3</sub>** M.W. 92.14 g/mol  
**Boiling Pt:** 110,6 °C (1013 hPa) **Melting Pt:** -95 °C **Density:** 0,867 g/cm<sup>3</sup> (20 °C)  
**Storage Temperature:** Ambient **REACH:** 01-2119471310-51

Appearance	Clear colourless liquid	Assay (on anhydrous substance)	Min. 99.5 %
Carbonisable substances	Passes test	IR Spectrum	Passes test
Substances coloured by H <sub>2</sub> SO <sub>4</sub>	Passes test ACS/ISO	Acidity or alkalinity	Max. 0.0001 meq/g
Boiling point	109 - 112 °C	Colouration	Max. 10 APHA
Density (20/4)	0.865 - 0.868	Density (20/20)	0.865 - 0.870
n <sub>D</sub> 20/D	1.496 - 1.498	Benzene	Max. 50 ppm
Evaporation residue	Max. 10 ppm	Thiophene	Max. 1 ppm
Total S (as SO <sub>4</sub> )	Max. 10 ppm	Water	Max. 0.03 %
Al (Aluminium)	Max. 0.05 ppm	B (Boron)	Max. 0.02 ppm
Ba (Barium)	Max. 0.02 ppm	Ca (Calcium)	Max. 0.2 ppm
Cd (Cadmium)	Max. 0.01 ppm	Co (Cobalt)	Max. 0.01 ppm
Cr (Chromium)	Max. 0.01 ppm	Cu (Copper)	Max. 0.01 ppm
Fe (Iron)	Max. 0.1 ppm	K (Potassium)	Max. 0.1 ppm
Mg (Magnesium)	Max. 0.05 ppm	Mn (Manganese)	Max. 0.01 ppm
Na (Sodium)	Max. 0.5 ppm	Ni (Nickel)	Max. 0.01 ppm
Pb (Lead)	Max. 0.01 ppm	Sn (Tin)	Max. 0.05 ppm
Sr (Strontium)	Max. 0.02 ppm	Zn (Zinc)	Max. 0.01 ppm
Conforms to ACS	Passes test	Conforms to Reag. Ph.Eur.	Passes test

Cat. No.	Pk	Pack type
28676.297	1 l	Glass bottle
28676.322	2,5 l	Glass bottle
28676.366	5 l	Fluorinated plastic bottle
28676.468	25 l	Metal drum
28676.550	200 l	Metal drum

## Toluene, anhydrous (max. 0.005% H<sub>2</sub>O) AnalR NORMAPUR® analytical reagent



Danger

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**Boiling Pt:** 110,6 °C (1013 hPa) **Melting Pt:** -95 °C **Density:** 0,867 g/cm<sup>3</sup> (20 °C)  
**Storage Temperature:** Ambient **REACH:** 01-2119471310-51

Appearance	Clear colourless liquid	Colour value	Max. 10 APHA
Assay (calculated on anhydrous)	Min. 99.8 %	Residue on evaporation	Max. 0.0010 %
Water (K.F.)	Max. 0.0050 %	Acidity or alkalinity	Max. 0.0001 meq/g
Benzene	Max. 0.05 %	Thiophene	0.0001 %
Carbonisable substances	Passes test	Al (Aluminium)	Max. 0.5 ppm
B (Boron)	Max. 0.02 ppm	Ba (Barium)	Max. 0.1 ppm
Ca (Calcium)	Max. 0.5 ppm	Cd (Cadmium)	Max. 0.01 ppm
Co (Cobalt)	Max. 0.02 ppm	Cr (Chromium)	Max. 0.02 ppm
Cu (Copper)	Max. 0.01 ppm	Fe (Iron)	Max. 0.05 ppm
Mg (Magnesium)	Max. 0.1 ppm	Mn (Manganese)	Max. 0.02 ppm
Ni (Nickel)	Max. 0.01 ppm	Pb (Lead)	Max. 0.01 ppm
Sn (Tin)	Max. 0.1 ppm	Zn (Zinc)	Max. 0.01 ppm
Total S (Sulphur)	Max. 10 ppm		

Cat. No.	Pk	Pack type
28681.295	1 l	Glass bottle

## Toluene GPR RECTAPUR®



Danger

**CAS 108-88-3** UN: 1294  
**C<sub>6</sub>H<sub>5</sub>CH<sub>3</sub>** M.W. 92.14 g/mol  
**Boiling Pt:** 110,6 °C (1013 hPa) **Melting Pt:** -95 °C **Density:** 0,867 g/cm<sup>3</sup> (20 °C)  
**Storage Temperature:** Ambient **REACH:** 01-2119471310-51

Assay	Min. 99.0 %
Appearance	Clear colourless liquid
IR Spectrum	Passes test
Boiling point	109 - 112 °C
Density (20/4)	0.865 - 0.868
Benzene	Max. 0.02 %
Evaporation residue	Max. 50 ppm
Water	Max. 0.1 %

Cat. No.	Pk	Pack type
28675.465	25 l	Metal drum
28675.556	200 l	Metal drum

## Toluene GPR RECTAPUR® for pathology



Danger

**CAS 108-88-3** UN: 1294  
**C<sub>6</sub>H<sub>5</sub>CH<sub>3</sub>** M.W. 92.14 g/mol  
**Boiling Pt:** 110,6 °C (1013 hPa) **Melting Pt:** -95 °C **Density:** 0,867 g/cm<sup>3</sup> (20 °C)  
**Storage Temperature:** Ambient **REACH:** 01-2119471310-51

Assay	Min. 99 %
Boiling point	109 - 112 °C
Density (20/4)	0.865 - 0.868
Benzene	Max. 0.02 %
Evaporation residue	Max. 50 ppm

Cat. No.	Pk	Pack type
28684.364	5 l	Fluorinated plastic bottle

## Toluene TECHNICAL



Danger

**CAS 108-88-3** UN: 1294  
**C<sub>6</sub>H<sub>5</sub>CH<sub>3</sub>** M.W. 92.14 g/mol  
**Boiling Pt:** 110,6 °C (1013 hPa) **Melting Pt:** -95 °C **Density:** 0,867 g/cm<sup>3</sup> (20 °C)  
**Storage Temperature:** Ambient **REACH:** 01-2119471310-51

Assay	Min. 98 %
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Cat. No.	Pk	Pack type
28701.364	5 l	Fluorinated plastic bottle
28701.466	25 l	Metal drum
28701.550	200 l	Metal drum

## Toluene-[D8] (99.5% D) for NMR spectroscopy



Danger

**CAS 2037-26-5** UN: 1294  
**C<sub>6</sub>D<sub>5</sub>CD<sub>3</sub>** M.W. 100.08 g/mol  
**Boiling Pt:** 110 °C (1013 hPa) **Melting Pt:** -85 °C **Density:** 0,94 g/cm<sup>3</sup> (20 °C)  
**Storage Temperature:** Refrigerator

Assay (on anhydrous substance)	Min. 99.9 %
Isotopic enrichment (FT NMR 400 MHz)(D)	Min. 99.5 %
Water (H <sub>2</sub> O+D <sub>2</sub> O)	Max. 0.0200 %

Cat. No.	Pk	Pack type
87159.0010	10 ml	Glass bottle
87159.0025	25 ml	Glass bottle

## Toluene- $\alpha$ -sulphonyl fluoride, high purity



Danger

**CAS 329-98-6** UN: 2923  
**C<sub>7</sub>H<sub>7</sub>FO<sub>2</sub>S** M.W. 174.2 g/mol  
**Boiling Pt:** 80-85 °C (0,3 torr) **Melting Pt:** 91-92 °C  
**Storage Temperature:** Ambient

An irreversible serine protease inhibitor of trypsin, chymotrypsin, kallikrein, subtilisin, and thrombin. Also inhibits the cysteine protease papain.

Solubility (5%, EtOH)	pass
Melting Point	91 °C - 95 °C
Purity	> 99 %

Cat. No.	Pk	Pack type
0754-5G	5 g	Glass bottle
0754-25G	25 g	Plastic bottle for solids