



## PSE LAB ANALYSIS OF CHEMICO-PHYSICAL PROPERTIES

We performed our own independent analysis of a number of interesting and valuable chemical compounds at our facilities.

	Formula	MW <sup>1</sup>
<b>Benzene</b>	C <sub>6</sub> H <sub>6</sub>	78.11
<b>Propylene</b>	C <sub>3</sub> H <sub>6</sub>	42.08
<b>Toluene</b>	C <sub>7</sub> H <sub>8</sub>	92.14
<b>Hydrogen</b>	H <sub>2</sub>	2.02
<b>Methane</b>	CH <sub>4</sub>	16.04
<b>Diphenyl</b>	(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub>	154.21

  

	BP <sup>2</sup>	Density <sup>3</sup>
<b>Benzene</b>	+80.1	876.5 (l)
<b>Propylene</b>	-47.6	1.812 (g)
<b>Toluene</b>	+111.5	870.4 (l)
<b>Hydrogen</b>	-252.9	0.081 (g)
<b>Methane</b>	-161.5	0.656 (g)
<b>Diphenyl</b>	+255.0	1040.0 (s)

(1) MW is the molecular weight, expressed in g/mol

(2) BP is the boiling point, expressed in °C and measured at 1 bar

(3) Density is expressed in g/L and is measured at 25°C and 1 bar. (g) and (l) specify the phase of the substance during the measurement.

© PSE-Lab 2018, all rights reserved.

## POLITECNICO DI MILANO IN PROCESS TO HIRE A LARGE NUMBER OF ENGINEERS

In recent days, an unusually large pool of candidates has been reportedly enrolled in a hiring process at Politecnico di Milano.



An insider from Politecnico di Milano, speaking on condition of anonymity, confirmed this rumor but refused to provide further details, like the number of candidates and available positions. Despite this, our source commented that the hiring process is going extremely well and that the candidates appear quite promising.

We contacted Politecnico di Milano for an official response, but we didn't receive a reply yet.

### ADVERTISEMENT

H2 Hydrogen, S.p.A. is an established supplier of technical gases for medium appliances to large plants. We offer an unlimited supply of Hydrogen (95% purity, with 5% methane) at just 2.1 €/kmol. Please contact us to know more.



## JOB OFFERS

### PROCESS ENGINEER – MILAN

Politecnico di Milano has opened several positions for 2-month contracts for registered teams of Chemical Engineers.

The hiring process is ongoing. For more details, please refer to the job posting in the previous issue of The PSE Journal.

Teams that have already completed the first step of the process can proceed with the technical interview at [tiny.cc/pse18w2](http://tiny.cc/pse18w2)

### FINANCE

Average weekly figures:  
1/10-7/10 week

Crude oil <sup>1</sup>	77.38 (-26.9%)
Benzene <sup>1</sup>	139.26 (-20.2%)
Toluene <sup>1</sup>	133.41 (-16.9%)
Propylene <sup>2</sup>	928.93 (+2.3%)
Diphenyl <sup>2</sup>	630.23 (+7.1%)



8/10-14/10 week

Forecasts by OPEC:

Crude oil<sup>1</sup> 47.37 (-38.8%)

Forecasts by our expert:

Benzene<sup>1</sup> 141.20 (+1.4%)

Toluene<sup>1</sup> 88.95 (-33.3%)

Propylene<sup>2</sup> 877.67 (-5.5%)

Diphenyl<sup>2</sup> 628.86 (-0.2%)

(1) EUR per bbl (159 L)

(2) EUR per metric ton