

# 0.5% Ru/AT R 4871

## DeOxo™ E

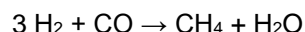
**BASF DeOxo E / R4871 is used for the low temperature methanation of H<sub>2</sub> and CO mixtures. It can also be used for the methanation of CO<sub>2</sub>.**

### General

DeOxo E/R4871 is a catalyst in the form of tablets with nominal dimensions of 3 x3 mm and with Ruthenium as active component. The material is delivered dry and reduced.

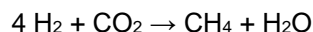
### Product Applications

DeOxo E/R4871 is used for the low temperature methanation (also referred to as super methanation) of H<sub>2</sub> and CO mixtures:



With DeOxo E/R4871, this reaction can be carried out at temperatures as low as 180 – 190°C (355 - 375°F).

The methanation of CO<sub>2</sub> according to the following reaction is also possible.



### Special Operations

DeOxo E/R4871 might gain maximum activity via a short activation procedure. Before unloading, the material should be oxidized.

### Poisons

Ruthenium is very sensitive to sulfur components and heavy metals. Thus, it is important to ensure that any feed coming in contact with DeOxo E/R4871 is free of these components.

### Storage

DeOxo E/R4871 does not deteriorate or constitute any hazard when stored in sealed containers. The containers should not be allowed to become damp or wet and should not be stored in contact with organic or easily oxidized vapors.

### Packaging

- 62 l fiber drums (up to 50 kg net)
- 213 l (55 gallon) steel drum (up to 180 kg net)

**Delivery Point:** Rome, Italy

### Typical Properties

#### Chemical Composition

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0.5 wt. % Ru on Alumina

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#### Tapped Bulk Density

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CBD, g / cm      1.1

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#### Surface Area

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S.A. (BET), m<sup>2</sup> / g      90

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