

0.5% Ru/AT R 4871

DeOxo™ E

BASF R4871 / DeOxo™ E is used for the low temperature methanation of H₂ and CO mixtures. It can also be used for the methanation of CO₂.

General

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

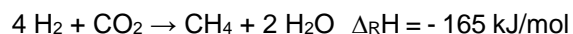
Product Applications

R4871 / DeOxo™ E is used for the low temperature methanation (also referred to as super methanation) of H₂ and CO mixtures:



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

The methanation of CO₂ according to the following reaction is also possible.



Special Operations

R4871 / DeOxo™ E does not need any special treatment. Indeed, the heating phase of the initial start-up will allow for a final drying and activation.

Poisons

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

Storage

R4871 / DeOxo™ E 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. For further information on storage, do not hesitate to contact BASF for further information.

Typical Properties

Chemical Composition

| | |
|---------------|---------------|
| Ru on Alumina | 0.5 % wt./wt. |
|---------------|---------------|

Tapped Bulk Density

| | |
|-------------|-----|
| CBD, g / ml | 1.1 |
|-------------|-----|

Surface Area

| | |
|--------------------------------|----|
| S.A. (BET), m ² / g | 90 |
|--------------------------------|----|

Packaging

- 62 l fiber drums (up to 50 kg net)

Delivery Point: Rome, Italy

About Us

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