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... .., *PhD*,
... .., *PhD*

[1].

[2-3].

$$\frac{\partial \rho_m}{\partial t} + \bar{\nabla}(\rho_m \bar{u}) = \bar{\nabla} \left[\rho D \bar{\nabla} \left(\frac{\rho_m}{\rho} \right) \right] + \dot{\rho}_m^c + \dot{\rho}^s \delta_{m1}, \quad (1)$$

D – , ρ_m – , ρ –
, $\dot{\rho}_m^c$ – ; $\dot{\rho}^s$ –
; u – .

$$\frac{\partial(\rho \bar{u})}{\partial t} + \bar{\nabla}(\rho \bar{u} \bar{u}) = -\frac{1}{a^2} \bar{\nabla} p - A_0 \bar{\nabla} (2/3 \rho k) + \bar{\nabla} \bar{\sigma} + \bar{F}^s + \rho \bar{g}, \quad (2)$$

p – , α – , A_0 0
1 – .

$$\frac{\partial(\rho l)}{\partial t} + \bar{\nabla}(\rho \bar{u} \bar{l}) = -\rho \bar{\nabla} \bar{u} + (1 - A_0) \bar{\sigma} \bar{\nabla} \bar{u} - \bar{\nabla} \bar{J} + A_0 \rho \varepsilon + \dot{Q}^c + \dot{Q}^s, \quad (3)$$

\dot{Q}^c \dot{Q}^s – ,

k

$$\frac{\partial \rho k}{\partial t} + \bar{\nabla} \cdot (\rho \bar{u} k) = -\frac{2}{3} \rho k \bar{\nabla} \cdot \bar{u} + \sigma \cdot \nabla \bar{u} + \bar{\nabla} \cdot \left[\left(\left(\frac{\mu}{Pr_k} \right) \bar{\nabla} k \right) \right] - \rho \varepsilon + \dot{W}^s, \quad (4)$$

$$\frac{\partial \rho \varepsilon}{\partial t} + \vec{\nabla} \cdot (\rho \vec{u} \varepsilon) = -\left(\frac{2}{3} c_{\varepsilon 1} - c_{\varepsilon 2}\right) \rho \varepsilon \vec{\nabla} \cdot \vec{u} + \vec{\nabla} \cdot \left[\left(\frac{\mu}{Pr_{\varepsilon}} \right) \vec{\nabla} \varepsilon \right] + \frac{\varepsilon}{k} [c_{\varepsilon 1} \sigma \vec{\nabla} \bar{u} - c_{\varepsilon 2} \rho \varepsilon + c_s \dot{W}^s]$$

$$c_{\varepsilon 1}, c_{\varepsilon 2}, c_s, Pr_k, Pr_{\varepsilon} \quad [3].$$

2. 353 15 - 600. 2 · 10⁻⁴ 700 1500 350 / () :

(C₈H₁₈)

(C₁₂H₂₆).

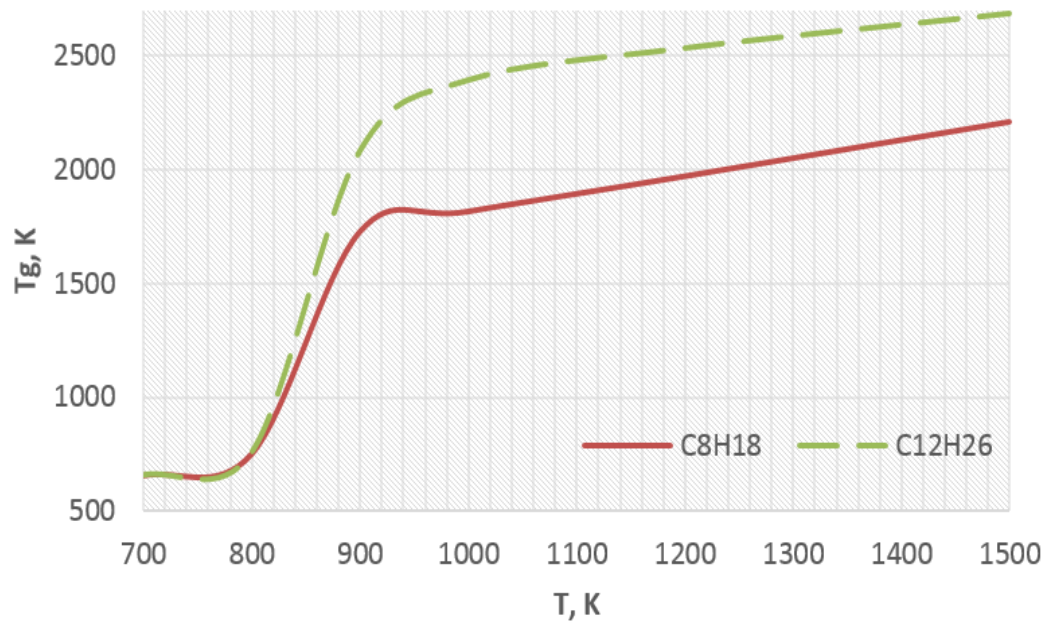
$$2 \cdot 8 \cdot 18 + 50 \cdot 2 = 16 \cdot 2 + 18 \cdot 2$$

$$2 \cdot 12 \cdot 26 + 37 \cdot 2 = 24 \cdot 2 + 26 \cdot 2$$

100 80 , 6 7 [2, . 142]. 1,

900 , =900 Tg=1726 =1500 Tg=2208 .

900 1500 2080 2685 .



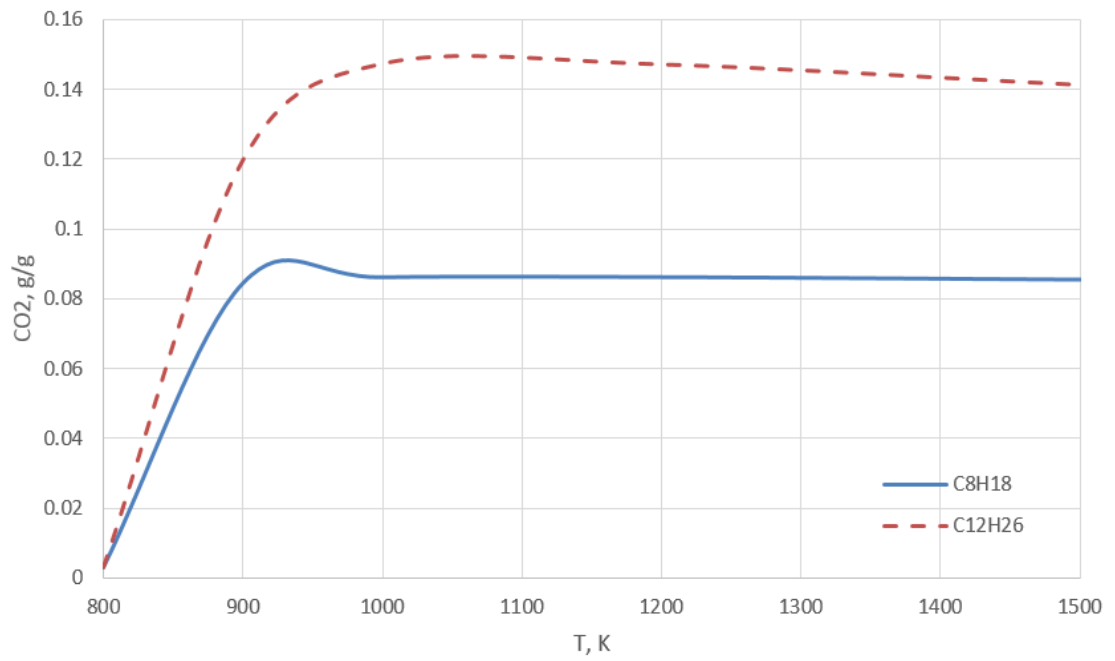
1 -

8 18

12 26

2

2



2 -

8 18

12 26

$$0,120 / \quad 0,148 / \quad 1000$$

$$=900 \quad . \quad =900$$

2

0,085 / (.2).

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$$2685 \quad , \quad 2080$$

$$=1500 \quad ;$$

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$$, \quad , \quad ,$$

$$2. \quad 900 \quad , \quad 0,120 /$$

0,085 / .,

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900

CO₂

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