$\label{eq:condition} $$ \inf[12] = Simplify[Grad[exp0[\{x,\,y,\,z,\,0\}],\,\{x,\,y,\,z,\,w\}]] // \; MatrixForm $$ for all $x \in \mathbb{R}^{n}$. $$ The sum of the condition $$ for all $x \in \mathbb{R}^{n}$ and $$ for all $x \in \mathbb{R}^{n}$. $$ The sum of the condition $$ for all $x \in \mathbb{R}^{n}$. $$ The sum of the co$ 

Out[12]//MatrixForm=

$$\left( \begin{array}{c} \frac{x^2 \sqrt{x^2 + y^2 + z^2} \ \text{Cosh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right] + \left( y^2 + z^2 \right) \, \text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{\left( x^2 + y^2 + z^2 \right)^{3/2}} \\ \times y \left( \begin{array}{c} \frac{\text{Cosh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{x^2 + y^2 + z^2} - \frac{\text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{\left( x^2 + y^2 + z^2 \right)^{3/2}} \right) \\ \times y \left( \begin{array}{c} \frac{\text{Cosh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{x^2 + y^2 + z^2} - \frac{\text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{\left( x^2 + y^2 + z^2 \right)^{3/2}} \right) \\ \times y \left( \begin{array}{c} \frac{y^2 \sqrt{x^2 + y^2 + z^2} \ \text{Cosh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right] + \left( x^2 + z^2 \right) \, \text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}}{\left( x^2 + y^2 + z^2 \right)^{3/2}} \right) \\ \times y \left( \begin{array}{c} \frac{\text{Cosh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right] + \left( x^2 + z^2 \right) \, \text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{\left( x^2 + y^2 + z^2 \right)} \right) \\ \times y \left( \begin{array}{c} \frac{\text{Cosh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{x^2 + y^2 + z^2} - \frac{\text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{\left( x^2 + y^2 + z^2 \right)} \right) \\ \times y \left( \begin{array}{c} \frac{\text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{x^2 + y^2 + z^2} - \frac{\text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{\left( x^2 + y^2 + z^2 \right)} \right) \\ \times y \left( \begin{array}{c} \frac{y \, \text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{\sqrt{x^2 + y^2 + z^2}} - \frac{\text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{\left( x^2 + y^2 + z^2 \right)} \right) \\ \times y \left( \begin{array}{c} \frac{y \, \text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{\sqrt{x^2 + y^2 + z^2}} - \frac{\text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{\left( x^2 + y^2 + z^2 \right)} \right) \\ \times y \left( \begin{array}{c} \frac{y \, \text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{\sqrt{x^2 + y^2 + z^2}} - \frac{\text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{\left( x^2 + y^2 + z^2 \right)} \right) \\ \times y \left( \begin{array}{c} \frac{y \, \text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{\sqrt{x^2 + y^2 + z^2}} - \frac{\text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{\left( x^2 + y^2 + z^2 \right)} \right) \\ \times y \left( \begin{array}{c} \frac{y \, \text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{\sqrt{x^2 + y^2 + z^2}} - \frac{\text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{\left( x^2 + y^2 + z^2 \right)} \right) \\ \times y \left( \begin{array}{c} \frac{y \, \text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{\sqrt{x^2 + y^2 + z^2}} - \frac{\text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{\sqrt{x^2 + y^2 + z^2}} \right) \\ \times y \left( \begin{array}{c} \frac{y \, \text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{\sqrt{x^2 + y^2 + z^2}} - \frac{\text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2} \ \right]}{\sqrt{x^2 + y^2 + z^2}} \right) \\ \times y \left( \begin{array}{c} \frac{y \, \text{Sinh} \left[ \sqrt{x^2 + y^2 + z^2}$$

 $\label{eq:local_local_local} $$ \operatorname{ReplaceAll[Simplify[Grad[exp0[{x, y, z, 0}], {x, y, z, w}]], $$ {Sqrt[x^2+y^2+z^2] \rightarrow r, x^2+y^2+z^2 \rightarrow r^2}] // \operatorname{MatrixForm} $$$ 

Out[13]//MatrixForm=