



**Organic Rosemary Antioxidant CO2 Extract, 25% DTP**  
 INCI: Rosmarinus Officinalis (Rosemary) Leaf Extract (and)  
 Helianthus Annuus (Sunflower) Seed Oil  
 Product ID: ORGCO2ROE25DE52

**Specifications**

**Analytical Details**

**Appearance:**  
**Odor:**  
**Total Volatile Flavor Compounds:**  
**Total Content of Borneol, Borneyl Acetate, Camphor, 1,8-Cineole, Verbenone:**  
**Residual Content of Ethanol:**  
**Content of Water:**

**Methods**

Visual  
 Organoleptic  
 21.135.02, GCMS, Quantitative  
 21.135.02, GCMS, Quantitative  
 21.025.05, GCFID  
 21.220.01, Karl Fischer Method

**Specifications**

Dark Brown Viscous Liquid  
 Weak Odor  
 < 4.0%  
 Not Specified  
 < 2.0%  
 < 1.0%

**Polyphenolic Profile**

<b>Rosmanol:</b>	21.028.06, HPLC	Not Specified
<b>7-methyl-Rosmanol:</b>	21.028.06, HPLC	Not Specified
<b>Carnosol:</b>	21.028.06, HPLC	Not Specified
<b>Carnosic Acid:</b>	21.028.06, HPLC	> 10%
<b>12-o-methyl-Carnosic Acid:</b>	21.028.06, HPLC	Not Specified
<b>Sum of Phenolic Diterpenes (as Carnosic Acid):</b>	21.028.06, HPLC	16 - 18%
<b>Reference AO Compounds Carnosol + Carnosic Acid (as Carnosic Acid):</b>	21.028.06, HPLC	12 - 16%
<b>Betulinic Acid:</b>	21.028.06, HPLC	Not Specified
<b>Ursolic Acid:</b>	21.028.06, HPLC	Not Specified
<b>Oleanolic Acid:</b>	21.028.06, HPLC	Not Specified

**Shelf Life:** 5 Years

**Note: According to Rancimat testing (in lard at 120 °C and 15 L/hr air flow), 200 ppm of Rosemary Antioxidant has 1.2 times as much anti-oxidative activity as 500 ppm alpha Tocopherol and 500 ppm Rosemary Antioxidant has 1.6 times as much anti-oxidative activity as 500 ppm alpha Tocopherol.**

**Date:** 01/13/2021

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