CH_3-COOH	+	CH_3-CH_2-OH	$\rightleftharpoons$	$CH_3-COO-CH_2-CH_3$	+	H_2O
9		9		0		0
$-x$		$-x$		$+x$		$+x$
$9-x$		$9-x$		x		x
3		3		6		6

$$K_c = \frac{x \cdot x}{(9-x)\cdot(9-x)} = 4$$

$$x^2 = 4(9-x)^2$$

$$x^2 = 4\cdot 81 - 72x + 4x^2$$

$$3x^2 - 72x + 342 = 0$$

$$x_{1,2} = \frac{72}{6} \pm \frac{\sqrt{(-72)^2 - 4\cdot 3\cdot 324}}{6} = 12 \pm 6$$

$x_1 = 18$ zu groß weil >9

$x_2 = 6$

CH_3-COOH	+	CH_3-CH_2-OH	$\rightleftharpoons$	$CH_3-COO-CH_2-CH_3$	+	H_2O
9		9		0		0
$-x$		$-x$		$+x$		$+x$
$9-x$		$9-x$		x		x
3		3		6		6

	CH_3-COOH	+	CH_3-CH_2-OH	$\rightleftharpoons$	$CH_3-COO-CH_2-CH_3$	+	H_2O
A	9		9		0		0
V	$-x$		$-x$		$+x$		$+x$
G	$9-x$		$9-x$		x		x
	3		3		6		6

A: Anfang; V: Veränderung; G: Gleichgewicht;