



>>Derivative: Me ester

CAS Registry Number: 41654-16-4

Molecular Formula: C<sub>10</sub>H<sub>18</sub>O<sub>2</sub>

Molecular Weight: 170.251

Percentage Composition: C 70.55%; H 10.66%; O 18.80%

Biological Source: Isol. from tobacco

>>Variant: (ξ)-form

Molecular Formula: C<sub>9</sub>H<sub>16</sub>O<sub>2</sub>

Molecular Weight: 156.224

Accurate Mass: 156.11503

Percentage Composition: C 69.19%; H 10.32%; O 20.48%

Biological Source: Isol. from gardenia, grapes, tobacco and strawberries

>>Derivative: Me ester

Synonym(s): FEMA 3710

CAS Registry Number: 13481-87-3

Molecular Formula: C<sub>10</sub>H<sub>18</sub>O<sub>2</sub>

Molecular Weight: 170.251

Percentage Composition: C 70.55%; H 10.66%; O 18.80%

Biological Source: Isol. from guava and hop oil

Use/Importance: Flavouring ingredient

Physical Description: Liq. with watermelon-like odour

Aldrich: W37100-9

#### References:

- Morton, A.A. *et al.*, *J.A.C.S.*, 1950, **72**, 3785, (*synth*)  
Groff, T.M. *et al.*, *Ark. Kemi*, 1968, **29**, 179, (*ms, ester*)  
Koyama, H. *et al.*, *Agric. Biol. Chem.*, 1972, **36**, 793, (*synth, pmr, ester*)  
Kimland, B. *et al.*, *Phytochemistry*, 1973, **12**, 835, (*isol*)  
Hattori, R. *et al.*, *Agric. Biol. Chem.*, 1978, **42**, 1351, (*isol*)  
Shiota, H., *Koryo*, 1978, **121**, 23, (*isol, ester*)  
Kawashima, M. *et al.*, *Bull. Chem. Soc. Jpn.*, 1988, **61**, 3255, (*synth*)  
Deng, M.Z. *et al.*, *J.O.C.*, 1992, **57**, 4017-4019, (*E-form Et ester*)  
Bulugahapitiya, P. *et al.*, *J.O.C.*, 1997, **62**, 1630-1641, (*E-form Et ester, Z-form Me ester*)  
Ragoussis, N. *et al.*, *J.C.S. Perkin 1*, 1998, 3529-3533, (*E-form Me ester, synth, pmr, ir, cmr, ms*)