



>>Derivative: Butanoyl

Synonym(s): Cyclohexyl butanoate. FEMA 2351

CAS Registry Number: 1551-44-6

Molecular Formula:  $C_{10}H_{18}O_2$

Molecular Weight: 170.251

Accurate Mass: 170.13068

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

Use/Importance: Used in perfumery and food flavouring

Physical Description: Oily liq. with floral odour

Boiling Point: Bp 212°

Density: d 0.95

Refractive Index:  $n_D^{25}$  1.4423

>>Derivative: 3-Methylbutanoyl

Synonym(s): Cyclohexyl 3-methylbutanoate. Cyclohexyl isovalerate. FEMA 2355

CAS Registry Number: 7774-44-9

Molecular Formula:  $C_{11}H_{20}O_2$

Molecular Weight: 184.278

Accurate Mass: 184.14633

Percentage Composition: C 71.70%; H 10.94%; O 17.36%

Use/Importance: Used in fruit food flavouring

Boiling Point: Bp 223°

Density: d 0.93

Refractive Index:  $n_D^{25}$  1.4418

>>Derivative: Pentanoyl

Synonym(s): Cyclohexyl pentanoate. Cyclohexyl valerate

CAS Registry Number: 1551-43-5

Molecular Formula:  $C_{11}H_{20}O_2$

Molecular Weight: 184.278

Accurate Mass: 184.14633

Percentage Composition: C 71.70%; H 10.94%; O 17.36%

Use/Importance: Used in perfumery and blackcurrant fruit flavouring

Boiling Point: Bp<sub>6</sub> 93°

Density:  $d_4^{25}$  0.93

Refractive Index:  $n_D^{25}$  1.4439

>>Derivative: Hexanoyl

Synonym(s): Cyclohexyl hexanoate. Cyclohexyl caproate

CAS Registry Number: 6243-10-3

Molecular Formula:  $C_{12}H_{22}O_2$

Molecular Weight: 198.305

Accurate Mass: 198.16198

Percentage Composition: C 72.68%; H 11.18%; O 16.14%

Boiling Point: Bp<sub>12</sub> 104-105°

Density:  $d^{25}$  0.93

Refractive Index:  $n_D^{25}$  1.4460

>>Derivative: Benzoyl

CAS Registry Number: 2412-73-9

Molecular Formula:  $C_{13}H_{16}O_2$

Molecular Weight: 204.268

Accurate Mass: 204.11503

Percentage Composition: C 76.44%; H 7.89%; O 15.67%

Boiling Point: Bp 285°. Bp 152-153°

>>Derivative: 3,5-Dinitrobenzoyl

Melting Point: Mp 111-112°