



Percentage Composition: C 25.69%; H 4.31%; Cl 37.91%; N 14.98%; O 17.11%

Melting Point: Mp 90-91° (40-41°)

>>**Derivative:** Amide

>>**Derivative:** 1-Naphthyl ester

Synonym(s): 1-Naphthalenyl methylcarbamate, 9Cl. **Carbaryl**, ANSI, BAN, BSI, ISO. Carbaril, INN. NAC, JMAF. Arilate. Carbatrox 75. Carbavur. Carbomate. Clinicid. Denapon, JMAF. Dicarbam. Dyna-carbyl. Karbatox. Karbosep. Oltitox. Ravyon. Seffein. Thinsec. Vetox. Vioxam. UC 7744

CAS Registry Number: 63-25-2

Molecular Formula: C₁₂H₁₁NO₂

Molecular Weight: 201.224

Accurate Mass: 201.078979

Percentage Composition: C 71.63%; H 5.51%; N 6.96%; O 15.90%

Use/Importance: Contact insecticide

Melting Point: Mp 142°

Calculated Log P Data: Log P 2.38 (calc)

Hazard & Toxicity: LD₅₀ (rat, orl) 233-850 mg/kg. Exp. reprod. and teratogenic effects. OES: long-term 5 mg m⁻³; short-term 10 mg m⁻³

Rare Chemicals Library: S58639-0

Supelco: 44-2779

>>**Derivative:** 2-Naphthyl ester

CAS Registry Number: 4089-04-7

Molecular Formula: C₁₂H₁₁NO₂

Molecular Weight: 201.224

Accurate Mass: 201.078979

Percentage Composition: C 71.63%; H 5.51%; N 6.96%; O 15.90%

Use/Importance: Insecticide

Melting Point: Mp 118°

Rare Chemicals Library: S18956-1

>>**Derivative:** 3-(1-Ethylpropyl)phenyl ester

Synonym(s): 3-(1-Ethylpropyl)phenyl methylcarbamate, 9Cl

CAS Registry Number: 672-04-8

Molecular Formula: C₁₃H₁₉NO₂

Molecular Weight: 221.299

Accurate Mass: 221.141579

Percentage Composition: C 70.56%; H 8.65%; N 6.33%; O 14.46%

Use/Importance: Cholinesterase inhibitor in pesticide formulations

Other Data: Component of Bufencarb, a mixt. with the 3-(1-methylbutyl)phenyl ester

>>**Derivative:** 3-(1-Methylbutyl)phenyl ester

Synonym(s): 3-(1-Methylbutyl)phenyl methylcarbamate, 9Cl

CAS Registry Number: 2282-34-0

Molecular Formula: C₁₃H₁₉NO₂

Molecular Weight: 221.299

Accurate Mass: 221.141579

Percentage Composition: C 70.56%; H 8.65%; N 6.33%; O 14.46%

Use/Importance: Cholinesterase inhibitor in pesticide formulations

Boiling Point: Bp_{0.5} 136-139°

References: