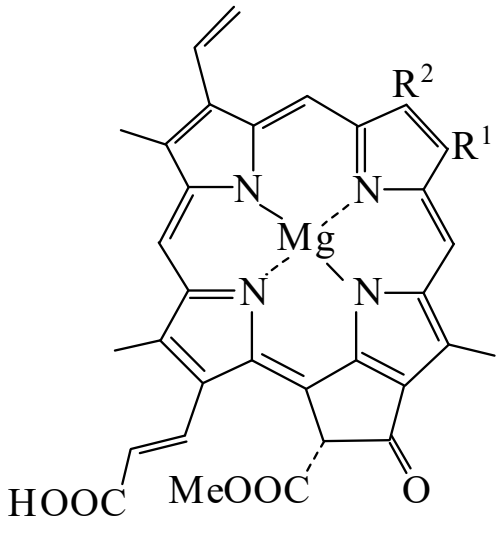
>>**Entry Name: Chlorophyll c**
ENTRY UNDER REVIEW
Synonym(s): Chlorophyllide c



c_1, $R^1 = CH{=}CH_2$, $R^2 = CH_3$

c_2, $R^1 = CH_2CH_3$, $R^2 = CH_3$

c_3, $R^1 = CH{=}CH_2$, $R^2 = COOMe$

Related CAS Registry Numbers(s): 1406-65-1

General Statement: In spite of their name these are porphyrins, not dihydro derivs. (or chlorins)
Biological Source: Widely distributed photosynthetic pigment in marine organisms, e.g. the diatom *Nitzschia closterium*
Physical Description: Cryst. (THF/petrol)
Other Data: λ_{max} 447, 578, 626 nm (Et_2O)

>>**Variant: Chlorophyll c_1**

CAS Registry Number: 18901-56-9
Molecular Formula: $C_{35}H_{28}MgN_4O_5$
Molecular Weight: 608.935
Accurate Mass: 608.191013
Percentage Composition: C 69.04%; H 4.63%; Mg 3.99%; N 9.20%; O 13.14%

>>**Variant: Chlorophyll c_2**

CAS Registry Number: 27736-03-4
Molecular Formula: $C_{35}H_{30}MgN_4O_5$
Molecular Weight: 610.951
Accurate Mass: 610.206663
Percentage Composition: C 68.81%; H 4.95%; Mg 3.98%; N 9.17%; O 13.09%

>>**Variant: Chlorophyll c_3**

CAS Registry Number: 111308-93-1
Molecular Formula: $C_{36}H_{28}MgN_4O_7$
Molecular Weight: 652.945
Accurate Mass: 652.180843
Percentage Composition: C 66.22%; H 4.32%; Mg 3.72%; N 8.58%; O 17.15%

References:

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Fookes, C.J.R. *et al.*, *Chem. Comm.*, 1989, 1827, *(isol, pmr, struct, Chlorophyll c_3)*