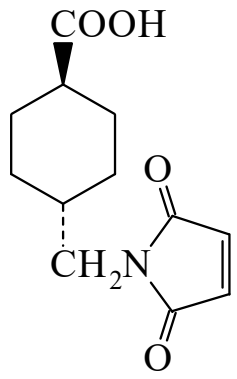
>>**Entry Name: 4-(*N*-Maleimidomethyl)cyclohexanecarboxylic acid**
Synonym(s): 4-[(2,5-Dihydro-2,5-dioxo-1*H*-pyrrol-1-yl)methyl]cyclohexanecarboxylic acid, 9CI



Molecular Formula: $C_{12}H_{15}NO_4$
Molecular Weight: 237.255
Accurate Mass: 237.100109
Percentage Composition: C 60.75%; H 6.37%; N 5.90%; O 26.97%

>>**Variant:** (1*RS*,4*RS*)-form
Synonym(s): *trans*-form

Molecular Formula: $C_{12}H_{15}NO_4$
Molecular Weight: 237.255
Accurate Mass: 237.100109
Percentage Composition: C 60.75%; H 6.37%; N 5.90%; O 26.97%

>>**Derivative:** 2,5-Dioxo-1-pyrrolidinyl ester
Synonym(s): Succinimidyl 4-(*N*-maleimidomethyl)cyclohexanecarboxylate. 1-[[4-[[(2,5-Dioxo-1-pyrrolidinyl)oxy]carbonyl]cyclohexyl]methyl]-1*H*-pyrrole-2,5-dione, 9CI. SMCC

CAS Registry Number: 64987-85-5
Molecular Formula: $C_{16}H_{18}N_2O_6$
Molecular Weight: 334.328
Accurate Mass: 334.116488
Percentage Composition: C 57.48%; H 5.43%; N 8.38%; O 28.71%
Use/Importance: Heterobifunctional cross-linking reagent used in enzyme coupling and other biochemical syntheses
Melting Point: Mp 165-167 subl.°
Aldrich: 28407-6
Fluka: 63181
Sigma: M6264

>>**Derivative:** Pentafluorophenyl ester
Synonym(s): Pentafluorophenyl 4-(*N*-maleimidomethyl)cyclohexanecarboxylate

CAS Registry Number: 153075-20-8
Molecular Formula: $C_{18}H_{14}F_5NO_4$
Molecular Weight: 403.305
Accurate Mass: 403.084299
Percentage Composition: C 53.61%; H 3.50%; F 23.55%; N 3.47%; O 15.87%
Use/Importance: Alternative to SMCC for similar purposes, more easily prepd.
Physical Description: Solid
Melting Point: Mp 157-158°

References:

Neilsen, O. *et al.*, *Synthesis*, 1991, 819, *(synth, pmr, cmr, ms)*
Adamczyk, M. *et al.*, *Synth. Commun.*, 1993, **25**, 592, *(bibl)*