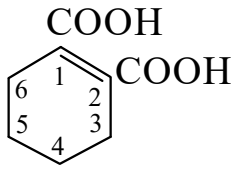
>>**Entry Name: 1-Cyclohexene-1,2-dicarboxylic acid,** 9CI
Synonym(s): Δ^1-Tetrahydrophthalic acid



CAS Registry Number: 635-08-5

Molecular Formula: $C_8H_{10}O_4$
Molecular Weight: 170.165
Accurate Mass: 170.05791
Percentage Composition: C 56.47%; H 5.92%; O 37.61%
Physical Description: Plates (H_2O)
Melting Point: Mp 120°
pKa Value: pK_{a1} 3.75; pK_{a2} 5.08 (20°)
Other Data: Forms anhydride before melting

>>**Derivative:** Di-Et ester

Molecular Formula: $C_{12}H_{18}O_4$
Molecular Weight: 226.272
Accurate Mass: 226.12051
Percentage Composition: C 63.70%; H 8.02%; O 28.28%
Boiling Point: Bp_{14} 160°

>>**Derivative:** Anhydride
Synonym(s): 4,5,6,7-Tetrahydro-1,3-isobenzofurandione

CAS Registry Number: 2426-02-0
Molecular Formula: $C_8H_8O_3$
Molecular Weight: 152.149
Accurate Mass: 152.047345
Percentage Composition: C 63.15%; H 5.30%; O 31.55%
Physical Description: Plates (Et_2O)
Melting Point: Mp 74°
Solubility: Sol. Et_2O
Other Data: Undergoes spontaneous polym. with 2-methylimidazole
Aldrich: T1400-1
Fluka: 87461
Sigma: T0267

>>**Derivative:** Monoamide

Molecular Formula: $C_8H_{11}NO_3$
Molecular Weight: 169.18
Accurate Mass: 169.073894
Percentage Composition: C 56.80%; H 6.55%; N 8.28%; O 28.37%
Physical Description: Needles (EtOH)
Other Data: Dec. at 170°

>>**Derivative:** Imide
see 4,5,6,7-Tetrahydro-1*H*-isoindole-1,3(2*H*)-dione, CZB01-S

References:

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