6-ethyl-1,2,3,4,5,6-hexahydro-7H-cyclopenta[b]pyridin-7-one

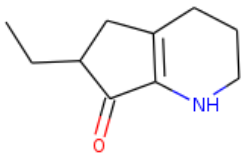
InChI: InChI=1S/C10H15NO/c1-2-7-6-8-4-3-5-11-9(8)10(7)12/h7,11H,2-6H2,1H3

InChI Key: GOTCNQZLHJWEAK-UHFFFAOYSA-N

Formula: C10H15NO

SMILES: CCC1CC2=C(NCCC2)C1=O

Molecular Weight: 165.23



Physical Properties

Property	Value	Unit	Source
$\Delta_f G°$	102.05	kJ/mol	Joback Method
$\Delta_f H°_{gas}$	-167.32	kJ/mol	Joback Method
$\Delta_{fus} H°$	20.10	kJ/mol	Joback Method
$\Delta_{vap} H°$	51.13	kJ/mol	Joback Method
$logP_{oct/wat}$	1.62		Crippen Method
P_c	3287.81	kPa	Joback Method
T_{boil}	584.65	K	Joback Method
T_c	823.82	K	Joback Method
T_{fus}	431.07	K	Joback Method
V_c	0.52	m^3/kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,gas}$	351.21	J/mol×K	584.65	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method

NIST Webbook: http://webbook.nist.gov/cgi/inchi/InChI=1S/C10H15NO/c1-2-7-6-8-4-3-5-11-9(8)10(7)12/h7,11H,2-6H2,1H3

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

$\mathbf{C_{p,gas}}$: Ideal gas heat capacity (J/mol×K).
$\mathbf{\Delta_f G°}$: Standard Gibbs free energy of formation (kJ/mol).
$\mathbf{\Delta_f H°_{gas}}$: Enthalpy of formation at standard conditions (kJ/mol).
$\mathbf{\Delta_{fus} H°}$: Enthalpy of fusion at standard conditions (kJ/mol).
$\mathbf{\Delta_{vap} H°}$: Enthalpy of vaporization at standard conditions (kJ/mol).
$\mathbf{\mathit{log}P_{oct/wat}}$: Octanol/Water partition coefficient .
$\mathbf{P_c}$: Critical Pressure (kPa).
$\mathbf{T_{boil}}$: Normal Boiling Point Temperature (K).
$\mathbf{T_c}$: Critical Temperature (K).
$\mathbf{T_{fus}}$: Normal melting (fusion) point (K).
$\mathbf{V_c}$: Critical Volume (m^3/kg-mol).