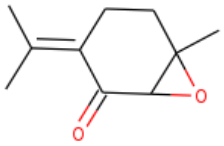
trans-Piperitenone oxide

InChI:
InChI=1S/C10H14O2/c1-6(2)7-4-5-10(3)9(12-10)8(7)11/h9H,4-5H2,1-3H3
InChI Key: AKASWINDKIEEBO-UHFFFAOYSA-N
Formula: C10H14O2
SMILES: CC(C)=C1CCC2(C)OC2C1=O
Molecular Weight: 166.22



Physical Properties

Property	Value	Unit	Source
$\Delta_f G°$	-34.57	kJ/mol	Joback Method
$\Delta_f H°_{gas}$	-298.51	kJ/mol	Joback Method
$\Delta_{fus} H°$	16.03	kJ/mol	Joback Method
$\Delta_{vap} H°$	46.33	kJ/mol	Joback Method
$logP_{oct/wat}$	1.84		Crippen Method
P_c	3127.99	kPa	Joback Method
T_{boil}	547.48	K	Joback Method
T_c	780.47	K	Joback Method
T_{fus}	349.91	K	Joback Method
V_c	0.51	m^3/kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,gas}$	336.24	J/mol×K	547.48	Joback Method

Sources

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

NIST Webbook: http://webbook.nist.gov/cgi/inchi/InChI=1S/C10H14O2/c1-6(2)7-4-5-10(3)9(12-10)8(7)11/h9H,4-5H2,1-3H3

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

Legend

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