(trans-1,2-Methylenehexyl)-cyclopropane

InChI: InChI=1S/C10H18/c1-2-3-4-9-7-10(9)8-5-6-8/h8-10H,2-7H2,1H3/t9-,10-/m1/s1
InChI Key: DBRZLJLLVUQXKI-NXEZZACHSA-N
Formula: C10H18
SMILES: CCCCC1CC1C1CC1
Molecular Weight: 138.25

Physical Properties

Property	Value	Unit	Source
$\Delta_f G°$	147.11	kJ/mol	Joback Method
$\Delta_f H°_{gas}$	-124.47	kJ/mol	Joback Method
$\Delta_{fus} H°$	19.00	kJ/mol	Joback Method
$\Delta_{vap} H°$	37.37	kJ/mol	Joback Method
$logP_{oct/wat}$	3.22		Crippen Method
P_c	2627.15	kPa	Joback Method
T_{boil}	437.01	K	Joback Method
T_c	626.35	K	Joback Method
T_{fus}	234.10	K	Joback Method
V_c	0.51	m^3/kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,gas}$	286.74	J/mol×K	437.01	Joback Method
η	0.00	Pa×s	437.01	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method
NIST Webbook: http://webbook.nist.gov/cgi/inchi/InChI=1S/C10H18/c1-2-3-4-9-7-10(9)8-5-6-8/h8-10H,2-7H2,1H3/t9-,10-/m1/s1
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

$\mathbf{C_{p,gas}}$: Ideal gas heat capacity (J/mol×K).
η: Dynamic viscosity (Pa×s).
$\Delta_f\mathbf{G°}$: Standard Gibbs free energy of formation (kJ/mol).
$\Delta_f\mathbf{H°_{gas}}$: Enthalpy of formation at standard conditions (kJ/mol).
$\Delta_{fus}\mathbf{H°}$: Enthalpy of fusion at standard conditions (kJ/mol).
$\Delta_{vap}\mathbf{H°}$: Enthalpy of vaporization at standard conditions (kJ/mol).
$\boldsymbol{log}\mathbf{P_{oct/wat}}$: 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).