Cyclohexane, (3-cyclopentylpropyl)-

Other names: 1-Cyclohexyl-3-cyclopentylpropane; Propane, 1-cyclohexyl-3-cyclopentyl-.

InChI: InChI=1S/C14H26/c1-2-7-13(8-3-1)11-6-12-14-9-4-5-10-14/h13-14H,1-12H2

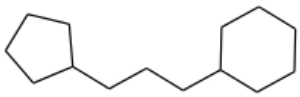
InChI Key: CPBZARXQRZTYGI-UHFFFAOYSA-N

Formula: C14H26

SMILES: C(CC1CCCC1)CC1CCCCC1

Molecular Weight: 194.36

CAS: 2883-07-0



Physical Properties

Property	Value	Unit	Source
$\Delta_f G°$	128.00	kJ/mol	Joback Method
$\Delta_f H°_{gas}$	-217.49	kJ/mol	Joback Method
$\Delta_{fus} H°$	17.79	kJ/mol	Joback Method
$\Delta_{vap} H°$	47.44	kJ/mol	Joback Method
$logP_{oct/wat}$	4.93		Crippen Method
P_c	2110.00	kPa	Joback Method
T_{boil}	554.55	K	Joback Method
T_c	770.38	K	Joback Method
T_{fus}	248.55 ± 0.50	K	NIST Webbook
T_{fus}	248.60 ± 1.00	K	NIST Webbook
V_c	0.69	m^3/kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,gas}$	488.37	J/mol×K	554.55	Joback Method
η	0.00	Pa×s	554.55	Joback Method

Property	Value	Unit	Temperature (K)	Source
$\Delta_{vap}H$	64.50	kJ/mol	387.0	NIST Webbook

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method
NIST Webbook: http://webbook.nist.gov/cgi/inchi/InChI=1S/C14H26/c1-2-7-13(8-3-1)11-6-12-14-9-4-5-10-14/h13-14H,1-12H2
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

$C_{p,gas}$: Ideal gas heat capacity (J/mol×K).
η: Dynamic viscosity (Pa×s).
Δ_f**G°**: Standard Gibbs free energy of formation (kJ/mol).
Δ_f**H°**$_{gas}$: Enthalpy of formation at standard conditions (kJ/mol).
Δ_{fus}**H°**: Enthalpy of fusion at standard conditions (kJ/mol).
Δ_{vap}**H°**: Enthalpy of vaporization at standard conditions (kJ/mol).
Δ_{vap}**H**: Enthalpy of vaporization at a given temperature (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).