14-Tetracosene, 27-methyl

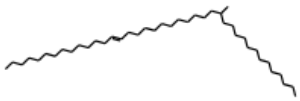
InChI: InChI=1S/C41H82/c1-4-6-8-10-12-14-16-17-18-19-20-21-22-23-24-25-26-27-28-30-32-34-36-38-40-41(3)39-37-35-33-31-29-15-13-11-9-7-5-2/h22-23,41H,4-21,24-40H2,1-3H3/b23-22+

InChI Key: KDWZUEQMMIVDOK-GHVJWSGMSA-N

Formula: C41H82

SMILES: CCCCCCCCCCCCCC=CCCCCCCCCCCCC(C)CCCCCCCCCCCCC

Molecular Weight: 575.09



Physical Properties

Property	Value	Unit	Source
$\Delta_f G°$	372.12	kJ/mol	Joback Method
$\Delta_f H°_{gas}$	-777.63	kJ/mol	Joback Method
$\Delta_{fus} H°$	98.62	kJ/mol	Joback Method
$\Delta_{vap} H°$	106.43	kJ/mol	Joback Method
$logP_{oct/wat}$	15.87		Crippen Method
P_c	385.37	kPa	Joback Method
T_{boil}	1141.20	K	Joback Method
T_c	1526.95	K	Joback Method
T_{fus}	531.75	K	Joback Method
V_c	2.31	m^3/kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,gas}$	2219.84	J/mol×K	1141.2	Joback Method
η	0.00	Pa×s	1141.2	Joback Method

Sources

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

NIST Webbook: http://webbook.nist.gov/cgi/inchi/InChI=1S/C41H82/c1-4-6-8-10-12-14-16-17-18-19-20-21-22-23-24-25-26-27-28-30-32-34-36-38-40-41(3)39-37-35-33-31-29-15-13-11-9-7-5-2/h22-23,41H,4-21,24-40H2,1-3H3/b23-22+

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).
***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).