Heneicosane, 11-pentyl-

Other names:	11-n-Pentylheneicosane
	11-Pentylhenicosane
	Hexadecane, 6-decyl
	11-Pentylheneicosane
Inchi:	InChI=1S/C26H54/c1-4-7-10-12-14-16-18-21-24-26(23-20-9-6-3)25-22-19-17-15-13-11-8
InchiKey:	MSKKJKLPGKYANX-UHFFFAOYSA-N
Formula:	C26H54
SMILES:	CCCCCCCCCCC(CCCCC)CCCCCCCCCC
Mol. weight [g/mol]:	366.71
CAS:	14739-72-1

Physical Properties

Property code	Value	Unit	Source
gf	165.60	kJ/mol	Joback Method
hf	-585.25	kJ/mol	Joback Method
hfus	59.57	kJ/mol	Joback Method
hvap	73.08	kJ/mol	Joback Method
log10ws	-10.46		Crippen Method
logp	10.244		Crippen Method
mcvol	377.200	ml/mol	McGowan Method
pc	728.10	kPa	Joback Method
rinpol	2453.00		NIST Webbook
rinpol	2453.00		NIST Webbook
tb	793.84	K	Joback Method
tc	971.96	K	Joback Method
tf	264.10 ± 0.60	K	NIST Webbook
tf	264.10 ± 0.60	K	NIST Webbook
tf	264.05	K	NIST Webbook
vc	1.486	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1344.42	J/mol×K	971.96	Joback Method

cpg	1216.69	J/mol×K	793.84	Joback Method
cpg	1240.72	J/mol×K	823.53	Joback Method
cpg	1263.59	J/mol×K	853.21	Joback Method
cpg	1285.35	J/mol×K	882.90	Joback Method
cpg	1306.05	J/mol×K	912.59	Joback Method
cpg	1325.72	J/mol×K	942.27	Joback Method
dvisc	0.0000402	Pa×s	793.84	Joback Method
dvisc	0.0023771	Pa×s	367.78	Joback Method
dvisc	0.0006945	Pa×s	438.79	Joback Method
dvisc	0.0002858	Pa×s	509.80	Joback Method
dvisc	0.0001462	Pa×s	580.81	Joback Method
dvisc	0.0000865	Pa×s	651.82	Joback Method
dvisc	0.0000568	Pa×s	722.83	Joback Method
hvapt	96.30	kJ/mol	495.00	NIST Webbook

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C14739721&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
gf: Standard Gibbs free energy of formation
hf: Enthalpy of formation at standard conditions
hfus: Enthalpy of fusion at standard conditions
hvap: Enthalpy of vaporization at standard conditions
hvapt: Enthalpy of vaporization at a given temperature
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
pc: Critical Pressure
rinpol: Non-polar retention indices
tb: Normal Boiling Point Temperature

tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume