9-Hexacosene

Other names: Hexacos-9-ene
Inchi: InChI=1S/C26H52/c1-3-5-7-9-11-13-15-17-19-21-23-25-26-24-22-20-18-16-14-12-10-8-6
InchiKey: HGTCGIXAQAYYBS-HTXNQAPBSA-N
Formula: C26H52
SMILES: CCCCCCCCC=CCCCCCCCCCCCCCCCC
Mol. weight [g/mol]: 364.69
CAS: 71502-22-2

Physical Properties

Property code	Value	Unit	Source
gf	248.26	kJ/mol	Joback Method
hf	-462.75	kJ/mol	Joback Method
hfus	63.30	kJ/mol	Joback Method
hvap	73.43	kJ/mol	Joback Method
log10ws	-10.56		Crippen Method
logp	10.165		Crippen Method
mcvol	372.900	ml/mol	McGowan Method
pc	745.70	kPa	Joback Method
rinpol	2570.77		NIST Webbook
rinpol	2566.00		NIST Webbook
rinpol	2570.77		NIST Webbook
rinpol	2566.00		NIST Webbook
ripol	2594.00		NIST Webbook
ripol	2594.00		NIST Webbook
ripol	2594.00		NIST Webbook
ripol	2594.00		NIST Webbook
ripol	2594.00		NIST Webbook
tb	798.44	K	Joback Method
tc	977.71	K	Joback Method
tf	377.70	K	Joback Method
vc	1.472	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1192.23	J/mol×K	798.44	Joback Method
cpg	1215.57	J/mol×K	828.32	Joback Method
cpg	1237.82	J/mol×K	858.20	Joback Method
cpg	1259.02	J/mol×K	888.07	Joback Method
cpg	1279.24	J/mol×K	917.95	Joback Method
cpg	1298.52	J/mol×K	947.83	Joback Method
cpg	1316.92	J/mol×K	977.71	Joback Method
dvisc	0.0017257	Pa×s	377.70	Joback Method
dvisc	0.0005553	Pa×s	447.82	Joback Method
dvisc	0.0002429	Pa×s	517.95	Joback Method
dvisc	0.0001294	Pa×s	588.07	Joback Method
dvisc	0.0000789	Pa×s	658.19	Joback Method
dvisc	0.0000529	Pa×s	728.32	Joback Method
dvisc	0.0000380	Pa×s	798.44	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C71502222&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method

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
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
ripol: Polar retention indices

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

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