

2-hexacosene (E)

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:	QLCXXEKXAWWNQL-HWKANZROSA-N
Formula:	C26H52
SMILES:	CC=CCCCCCCCCCCCCCCCCCCCCCC
Mol. weight [g/mol]:	364.69

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
mvol	372.900	ml/mol	McGowan Method
pc	745.70	kPa	Joback Method
rpol	2609.00		NIST Webbook
tb	798.44	K	Joback Method
tc	977.71	K	Joback Method
tf	377.70	K	Joback Method
vc	1.472	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1192.23	J/molxK	798.44	Joback Method
cpg	1215.57	J/molxK	828.32	Joback Method
cpg	1237.82	J/molxK	858.20	Joback Method
cpg	1259.02	J/molxK	888.07	Joback Method
cpg	1279.24	J/molxK	917.95	Joback Method
cpg	1298.52	J/molxK	947.83	Joback Method
cpg	1316.92	J/molxK	977.71	Joback Method
dvisc	0.0017257	Paxs	377.70	Joback Method
dvisc	0.0005553	Paxs	447.82	Joback Method

dvisc	0.0002429	Paxs	517.95	Joback Method
dvisc	0.0001294	Paxs	588.07	Joback Method
dvisc	0.0000789	Paxs	658.19	Joback Method
dvisc	0.0000529	Paxs	728.32	Joback Method
dvisc	0.0000380	Paxs	798.44	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=R205751&Units=SI

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

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