11-methyl-1-dodecene

Inchi: InChI=1S/C13H26/c1-4-5-6-7-8-9-10-11-12-13(2)3/h4,13H,1,5-12H2,2-3H3
InchiKey: GRWZFPFQSHTXHM-UHFFFAOYSA-N
Formula: C13H26
SMILES: C=CCCCCCCCCC(C)C
Mol. weight [g/mol]: 182.35
CAS: ---

Physical Properties

Property code	Value	Unit	Source
gf	143.98	kJ/mol	Joback Method
hf	-191.50	kJ/mol	Joback Method
hfus	24.62	kJ/mol	Joback Method
hvap	43.47	kJ/mol	Joback Method
log10ws	-4.88		Crippen Method
logp	4.949		Crippen Method
mcvol	189.730	ml/mol	McGowan Method
pc	1713.19	kPa	Joback Method
rinpol	1256.00		NIST Webbook
rinpol	1256.00		NIST Webbook
tb	493.08	K	Joback Method
tc	659.29	K	Joback Method
tf	219.51	K	Joback Method
vc	0.739	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	437.02	J/mol×K	493.08	Joback Method
cpg	454.45	J/mol×K	520.78	Joback Method
cpg	471.17	J/mol×K	548.48	Joback Method
cpg	487.21	J/mol×K	576.18	Joback Method
cpg	502.58	J/mol×K	603.88	Joback Method
cpg	517.32	J/mol×K	631.59	Joback Method
cpg	531.43	J/mol×K	659.29	Joback Method

dvisc	0.0086175	Pa×s	219.51	Joback Method
dvisc	0.0026456	Pa×s	265.11	Joback Method
dvisc	0.0011487	Pa×s	310.70	Joback Method
dvisc	0.0006174	Pa×s	356.29	Joback Method
dvisc	0.0003821	Pa×s	401.89	Joback Method
dvisc	0.0002607	Pa×s	447.49	Joback Method
dvisc	0.0001910	Pa×s	493.08	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.59316e+01
Coeff. B	-4.72475e+03
Coeff. C	-8.13040e+01
Temperature range (K), min.	383.32
Temperature range (K), max.	526.19

Sources

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=R205637&Units=SI

The Yaws Handbook of Vapor Pressure: https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
pvap:	Vapor pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume