

2-Methyl-1-tetradecene

Inchi:	InChI=1S/C15H30/c1-4-5-6-7-8-9-10-11-12-13-14-15(2)3/h2,4-14H2,1,3H3
InchiKey:	WSNMNSLVXDWAFZ-UHFFFAOYSA-N
Formula:	C15H30
SMILES:	C=C(C)CCCCCCCCCCCC
Mol. weight [g/mol]:	210.40
CAS:	52254-38-3

Physical Properties

Property code	Value	Unit	Source
gf	154.71	kJ/mol	Joback Method
hf	-237.29	kJ/mol	Joback Method
hfus	32.02	kJ/mol	Joback Method
hvap	48.39	kJ/mol	Joback Method
log10ws	-5.95		Crippen Method
logp	5.873		Crippen Method
mcvol	217.910	ml/mol	McGowan Method
pc	1466.85	kPa	Joback Method
rinpol	1489.00		NIST Webbook
rinpol	1445.00		NIST Webbook
rinpol	1445.00		NIST Webbook
tb	539.16	K	Joback Method
tc	703.04	K	Joback Method
tf	243.09	K	Joback Method
vc	0.858	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	537.72	J/mol×K	539.16	Joback Method
cpg	556.19	J/mol×K	566.47	Joback Method
cpg	573.91	J/mol×K	593.79	Joback Method
cpg	590.90	J/mol×K	621.10	Joback Method
cpg	607.19	J/mol×K	648.41	Joback Method
cpg	622.81	J/mol×K	675.73	Joback Method

cpg

637.77

J/mol×K

703.04

Joback Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.52498e+01
Coeff. B	-4.76522e+03
Coeff. C	-8.48800e+01
Temperature range (K), min.	403.36
Temperature range (K), max.	564.36

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=C52254383&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>

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
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

Latest version available from:

<https://www.cheméo.com/cid/57-096-3/2-Methyl-1-tetradecene.pdf>

Generated by Cheméo on 2025-12-05 06:41:12.654135761 +0000 UTC m=+4665070.184176424.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.