

2-Undecene, 4,6,8,10-tetramethyl

Inchi:	InChI=1S/C15H30/c1-7-8-13(4)10-15(6)11-14(5)9-12(2)3/h7-8,12-15H,9-11H2,1-6H3/b8-
InchiKey:	UQMBLBZZNPZWNM-BQYQJAHWSA-N
Formula:	C15H30
SMILES:	CC=CC(C)CC(C)CC(C)CC(C)C
Mol. weight [g/mol]:	210.40

Physical Properties

Property code	Value	Unit	Source
gf	145.88	kJ/mol	Joback Method
hf	-256.83	kJ/mol	Joback Method
hfus	20.72	kJ/mol	Joback Method
hvap	47.39	kJ/mol	Joback Method
log10ws	-4.99		Crippen Method
logp	5.297		Crippen Method
mcvol	217.910	ml/mol	McGowan Method
pc	1509.33	kPa	Joback Method
rinpol	1290.00		NIST Webbook
tb	545.00	K	Joback Method
tc	722.42	K	Joback Method
tf	193.73	K	Joback Method
vc	0.832	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	541.30	J/molxK	545.00	Joback Method
cpg	632.66	J/molxK	692.85	Joback Method
cpg	616.08	J/molxK	663.28	Joback Method
cpg	598.69	J/molxK	633.71	Joback Method
cpg	580.45	J/molxK	604.14	Joback Method
cpg	561.33	J/molxK	574.57	Joback Method
cpg	648.46	J/molxK	722.42	Joback Method
dvisc	0.0001111	Paxs	545.00	Joback Method
dvisc	0.0001672	Paxs	486.45	Joback Method

dvisc	0.0002814	Paxs	427.91	Joback Method
dvisc	0.0005584	Paxs	369.37	Joback Method
dvisc	0.0014347	Paxs	310.82	Joback Method
dvisc	0.0057115	Paxs	252.28	Joback Method
dvisc	0.0524060	Paxs	193.73	Joback Method

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=R568359&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
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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